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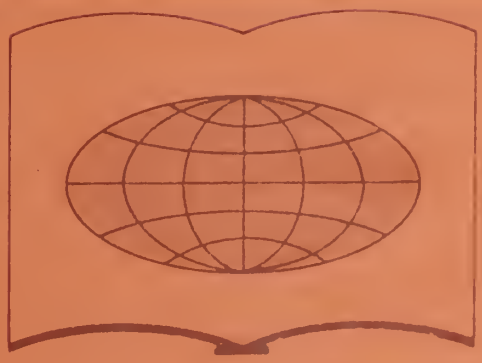

Volume 4 Number 24
November 22, 1968

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PESTICIDES DOCUMENTATION BULLETIN

Volume 4
November 22, 1968
Number 24

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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A METHOD FOR COLLECTING FEATHER LICE (MALLOPHAGA).
D B Crockett
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Catalogs, Ichneumonidae, Insect taxonomy. Russian journal pp. 864-868

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CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION A. VILLIERS AND A. DESCARPENTRIES. XLVIII. HEMIPTERA PYRRHOCORIDAE. (FR)
A Villiers
Inst Fondamental Afr Noire Bull Ser A Sci Natur 29(1):370-374
Jan 1967 515 D14
Catalogs, Insect taxonomy, Pyrrhocoridae, Zoogeography.

21640-68
EXAMINATION OF AFRICAN REDUVIIDAE. II. HARPACTORINAE. GENUS NAGUSTA STAL. (FR)
A Villiers
Inst Fondamental Afr Noire Bull Ser A Sci Natur (SER A)29(2):657-694
Apr 1967 515 D14
Catalogs, Insect taxonomy, Reduviidae, Zoogeography.

21641-68
CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION A. VILLIERS AND A. DESCARPENTRIES. LIV. HEMIPTERA PLATASPIDAE. (FR)
L Villiers
Inst Fondamental Afr Noire Bull Ser A Sci Natur (SER A):29(2):807-814
Apr 1967 515 D14
Catalogs, Heteroptera, Insect taxonomy, Zoogeography.

21642-68
A COLLECTION OF SPIDERS FROM SON NORWAY.
P F Waaler
Norsk Entomol Tidsskr 14(2):91-93
1967 421 N812
Catalogs, Insect ecology, Insect taxonomy, Spiders.

21643-68
WHAT IS A BEE .
G M Walton
New Zeal J Agr 114(1):53
Jan 1967 23 N48J
Apidae, Bees, Economic entomology, Hymenoptera, Insect ecology, Insect identification.

A brief description is given of New Zealands bees and wasps, including morphology, ecology and economic values.

21644-68
MIMICRY IN PLANTS AND ANIMALS.
W Wickler
255P. MCGRAW-HILL, NEW YORK
1968 QH546.W53
Animals, Insects, Mimicry, Plants. Translated from German by R. D. Martin. includes insects.

21645-68
HETEROPTERA BEATEN FROM BLACKCURRANTS AT LONG ASHTON RESEARCH STATION IN 1967.
J A Wightman
Entomologist (london) 101(1264):202-204
Sep 1968 421 EN8
Cimicidae, Currants, Heteroptera, Miridae, Pentatomidae, Taxonomy, Tingidae, Zoogeography.

21646-68
GEOMETRIDAE, NEW FOR TURKEY, DISCOVERED IN 1939-42 BY J. ROMIEUX.
E P Wiltshire
Entomol Gesell Basel 14(6,NOV-DEC):151-153
Dec 1964 Q0L461.0E58
Entomology, Geometridae, Insect identification, Insect taxonomy. German summary

21647-68
MORPHOLOGY OF THE MALE PINK SUGARCANE MEALYBUG, SACCHARICOCCUS SACCHARI CKLL. (PSEUDOCOCCIDAE: HOMOPTERA)--PART II. APTEROUS FORM.
R L Yadava
Agra Univ J Res Sci 16(PT 1):101-133
Jan 1967 513 AG8
Insect morphology, Saccharicoccus sacchari.

21648-68
A NEW GENUS AND THREE NEW SPECIES OF STONEFLIES (PLECOPTERA) FROM CAUCASUS AND CRIMEA.
L A Zhil'tsova
Entomol Rev 46(4,OCT-DEC):505-509
Dec 1967 421 R322AE
Insect taxonomy, Plecoptera. Russian journal pp. 850-856

PHYSIOLOGY AND BIOCHEMISTRY

21649-68
PORPHYRINIA PURPURINA HB. (LEP., NOCTUIDAE), NEW FOR FINLAND. (FI)
J Alvas
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(2):112-113
30 Aug 1967 421 SU7
Noctuidae, Zoogeography.

21650-68
MORTALITY DUE TO BACILLUS THURINGIENSIS IN POST-LARVAL STAGES OF SOME LEPIDOPTERA.
T A Angus
Entomol Soc Ontario Proc 95:133-134
1964 420 ON8
Bacillus thuringiensis, Bacteria, Larvae, Lepidoptera, Mortality, Research, Spraying.

21651-68
CONTRIBUTION TO STUDIES OF ZEUZERA 'ZEUZERA PYRINA' L. (LEPIDOPTERA COSSIDAE) IN THE LOWER VALLEY OF THE RHINE: THE LIFE CYCLE AND BIOLOGICAL CHARACTERISTICS OF DIFFERENT STAGES. (FR)
H Audemard
Rev Zool Agr Appl 66(7-9, 3RD TRIMESTER):65-91 REF
1967 410.9 SO12
Cossidae, Insect biology, Life cycle, Zeuzera pyrina.

21652-68
CROP POLLINATION AND THE FLOWER RELATIONSHIPS OF THE WILD BEES OF LUDHIANA, INDIA (HYMENOPTERA: APOIDEA).
S W T Batra
Kans Entomol Soc J 40(2):164-177
Apr 1967 420 K13
Aging, Bees, Climate, Crops, Insect behavior, Insect identification, Pollination.

21653-68
SLOW AND SPIKE POTENTIALS RECORDED FROM RETINULA CELLS OF THE HONEYBEE DRONE IN RESPONSE TO LIGHT.
F Bauman
J Gen Physiol 52(6):855-875 REF
Dec 1968 447.8 J822
Apidae, Apis mellifera, Bees, Insect physiology, Light, Phototropism, Retina.

21654-68
HYMENOPTERA ASSOCIATED WITH ELM BARK BEETLES IN WYTHAM WOOD, BERKS.
R A Beaver
Soc Brit Entomol Trans 17(PT 6):141-150 REF
Aug 1967 420 SO15
Hymenoptera, Parasitic insects, Scolytidae, Scolytus multistriatus.

21655-68
LARVAL DIAPAUSE IN THE TICK IXODES RICINUS L. AND ITS DEPENDENCE ON EXTERNAL CONDITIONS. IV. INTERACTION BETWEEN EXOGENOUS AND ENDOGENOUS FACTORS IN THE REGULATION OF LARVAL DIAPAUSE.
V N Belozerov
Entomol Rev 46(4,OCT-DEC):447-451 REF
Dec 1967 421 R322AE
Diapause, Environment, Insect biology, Ixodes ricinus, Larvae, Metamorphosis, Photoperiodism, Temperature. Russian journal pp. 760-768

21656-68
WEATHER CONDITIONS AND DAILY ACTIVITY OF DRAGONFLIES (ODONATA).
B F Belyshev
Entomol Rev 46(4,OCT-DEC):457-460
Dec 1967 421 R322AE
Insect ecology, Insect flight, Odonata, Weather. Russian journal pp. 778-783

21657-68
INTRODUCING QUEEN BEES.
F S Benecke
Agr Gaz New S Wales 78(PT 9):513-516
Sep 1967 23 N472
Apiculture, Methodology, Queen bees.

Methods of introducing queen bees into bee colonies in Australia are discussed.

21658-68
DEVELOPMENT OF SAMPLING TECHNIQUES AND LIFE TABLES FOR THE FIR ENGRAVER SCOLYTUS VENTRALIS (COLEOPTERA: SCOLYTIDAE).
A A Berryman
Can Entomol 100(11):1138-1147 REF
Nov 1968 421 C16
Aging, Coleoptera, Population, Sampling (statistics), Scolytidae, Scolytus ventralis.

21659-68
INFLUENCE OF SOIL HUMIDITY ON THE LOCATION IN DEPTH OF THE GALLEY BEET WORM DURING A FAVORABLE SEASON. (FR)
J Biernaux
Gembloux Inst Agron Etat Bull 3(2):234-240
1968 105.1 G285
Diplopoda, Insect ecology, Soil moisture, Sugar beets.

Millipedes of sugar-beets (Blaniulus guttulatus

Bosc. and Archiboreaiulus pallidus Br. Bx.) avoid soils with less than 110 water content but readily dwell in soils with more than 130 water content.

21660-68
OBSERVATIONS ON THE HIBERNATION OF PSILA ROSAE F. (FR)
J Biernaux
Gembloux Inst Agron Etat Bull 3(2):241-248 REF
1968 105.1 G285
Diapause, Larvae, Metamorphosis, Psila rosae, Pupae. English, German and Afrikaan abstract

The hibernating larvae of Psila rosae developed into adults faster than the diapausing pupae.

21661-68
BREEDING INSECTS WITH ARTIFICIAL FOOD. (GE)
M Boness
Umschau 68(18):561
29 Aug 1968 474 UM7
Breeding, Food, Insect pests, Insect rearing, Leaves, Methodology, Plant extracts.

21662-68
THE METHOD OF ACTION OF THE DARK AND LIGHT PHASES ON THE PRODUCTION OF WINGED GYMNOSPORES OF DYSAPHIS PLANTAGINEA PASS. (HOMOPTERA, APHIDIDAE). (FR)
L Bonnemaison
Acad Sci Compt Rend Ser D Sci Nat (SER D)267(2, 2ND SEMESTER):218-220
08 Jul 1968 505 P21
Diurnal rhythm, Dysaphis plantaginea, Hormones, Insect physiology, Wings (insects).

21663-68
NOTES ON BIVOLTINISM IN THE LESSER PEACH TREE BORER, SYNANTHEDON PICTIPES (G AND R).
H R Boyce
Entomol Soc Ontario Proc 95:139
1964 420 ON8
Environment, Larvae, Plant cuttings, Reports, Research, Synanthedon pictipes.

21664-68
THE LARVAE AND PUPAE OF THE BRITISH CYLINDROTOMINAE AND LIMONIINAE (DIPTERA, TIPULIDAE).
A Brindle
Soc Brit Entomol Trans 17(PT 7):151-216 REF
Aug 1967 420 SO15
Catalogs, Insect ecology, Insect morphology, Larvae, Pupae, Tipulidae.

21665-68
EFFECTS OF ALTERING THE COMPOSITION AND VOLUME OF THE HAEMOLYMPH ON WATER INGESTION OF THE BLOWFLY, LUCILIA CUPRINA.
L B Browne
J Insect Physiol 14(11):1603-1620
Nov 1968 421 J825
Consumption, Hemolymph, Insect physiology, Lucilia cuprina, Research, Sodium chloride, Water.

21666-68
BIOSYNTHESIS AND OCCURRENCE OF FREE AMINO ACIDS IN EGGS OF THE GRASSHOPPER, AULOCARA ELLIOTTI.
D E Bunde J H Pepper
J Insect Physiol 14(11):1635-1649 REF
Nov 1968 421 J825
Amino acids, Aulocara elliotti, Chromatography, Culture media, Insect eggs, Insect rearing, Metabolism, Population, Radioactivity.

21667-68
SIGNIFICANCE OF THE TIME FACTOR IN THE IRRADIATION OF IMAGO INSECTS (EXPERIMENTS ON GRANARY WEEVILS).
I B Bychkovskaya G K Ochinskaya T P Volynova
Radiobiology 8(2):93-98 REF
Nov 1968 442.8 R11AE
Chemical control (insects), Cureulionidae, Insect physiology, Irradiation, Larvae, Mortality, Time. Russian journal- vol.8(2):235-238, 1968

21668-68
THE AUSTRALIAN PLAGUE LOCUST CHORTOICETES TERMINIFERA.
M Casimir
Agr Gaz New S Wales 78(PT 11):626-632
Nov 1967 23 N472
Chemical control (insects), Chortoicetes terminifera, Insect outbreak forecasting, Life cycle, Lindane, Spraying.

The life cycle and habits of Chortoicetes terminifera, the Australian plague locust and its chemical control and outbreak forecasting are discussed.

21669-68
ECOLOGY OF GOMPHOMASTAX CLAUATA PLOTNIKOVI C. BOL. (ORTHOPTERA EUMASTACIDAE).
M Ye Chernyakhovskiy
Entomol Rev 46(4,OCT-DEC):452-456
Dec 1967 421 R322AE
Acrididae, Food habits, Insect behavior, Insect ecology, Insect physiology, Life cycle, Zoogeography. Russian journal pp. 769-777

21670-68
THE RELIABILITY OF A METHOD OF SAMPLING STREAM INVERTEBRATES.
F M Chutter R G Noble
Arch Hydrobiol 62(1):95-103
May 1966 410 AR28
Aquatic insects, Ecology, Invertebrates, Methodology, Sampling (statistics), Surveys.

21671-68
THE MODIFICATION OF ADULT LIFE SPAN IN BRACON HEBETOR (HYMENOPTERA: BRACONIDAE) BY IRRADIATION IN NITROGEN.
A M Clark R E Smith
Entomol Soc Amer Ann 61(2):541-542 REF
15 Mar 1968 420 EN82
Air, Bracon hebetor, Braconidae, Gamma rays, Insect behavior, Longevity, Nitrogen, X-rays.

21672-68
LOCALIZATION AND DESCRIPTION OF STRETCH RECEPTORS AT THE LEVEL OF THE TIBIO-FEMORAL JOINT OF THE JUMPING LEG OF THE CRICKET, SCHISTOCERCA GREGARIA. (FR)
J P Coillot J Boistel
J Insect Physiol 14(11):1661-1667 REF
Nov 1968 421 J825
Cells, Insect histology, Insect morphology, Insect physiology, Joints, Legs, Locomotion, Schistocerca gregaria. English summary

21673-68
WARNING SOUNDS OF MOTHS.
D Covalt-Dunning
Z Tierpsychol 25(2):129-138 REF
Mar 1968 410 Z35
Bats, Insect behavior, Moths, Stridulation. German summary

21674-68
FOUR IMPORTANT BEE DISEASES.
N A Cutts
Agr Gaz New S Wales 78(PT 12):698-702
Dec 1967 23 N472
Apiculture, Apis mellifera, Bee diseases, Foulbrood, Nosema disease, Paralysis, Sacbrood, Sanitation control (insects).

Economic importance, causal organisms, symptoms and control methods for four bee diseases in Australia are discussed.

21675-68
THE EFFECTS OF HIGH TEMPERATURES ON GREENBUG, SCHIZAPHISGRAMINUM, REPRODUCTION.
N E Daniels
Kans Entomol Soc J 40(2):133-137
Apr 1967 420 K13
Aging, Laboratories, Reproduction, Research, Schizaphis graminum, Temperature.

21676-68
CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION A. VILLIERS AND A. DESCARPENTRIES. XLV. COLEOPTERA OCHODAEIDAE. (FR)
J Decelle
Inst Fondamental Afr Noire Bull Ser A Sci Natur 29(1):344
Jan 1967 515 D14
Coleoptera, Insect taxonomy, Zoogeography.

21677-68
SOURCES OF LARVAL SALIVARY GLAND SECRETION IN THE DIPTERAN CHIRONOMUS TENTANS.
D Doyle H Laufer
J Cell Biol 40(1):61-78 REF
Jan 1969 442.8 J828
Chironomidae, Chironomus tentans, Larvae, Proteins, Salivary glands (insects), Secretion.

21678-68
THE ROLE OF SOIL ARTHROPODS IN COMMUNITY ENERGETICS.
M D Engelmann
Amer Zool 8(1):61-69 REF
Feb 1968 410 AM3
Arthropoda, Insect ecology, Soil insects, Surveys.

21679-68
SEXUAL REPRODUCTION OF 'GREEN PEACH APHID' MYZUS PERSICAE (SULZ) IN MENDOZA (ARGENTINA). (SP)
J C Espul P S Mansur
Rev Invest Agr Ser 5, Patol Veg 5(6):63-71
1968 464.8 R322
Insect physiology, Myzus persicae, Reproduction, Sex. English abstract

21680-68
RESPONSE CHARACTERISTICS AND PROBABLE BEHAVIOURAL ROLES FOR ABDOMINAL VIBRATION RECEPTORS OF SOME COCKROACHES.
G J Florentine
J Insect Physiol 14(11):1577-1588 REF
Nov 1968 421 J825
Abdomen, Insect behavior, Insect physiology, Insect respiration, Leucophaea maderae, Nauphoeta cinerea, Periplaneta americana, Research, Vibration.

21681-68
RESEARCH ON FOREST ECOSYSTEMS. SERIES B: THE MIXED CALCIFIED OAK-GROVE OF VIRELLES-BLAIMONT. CONTRIBUTION NO. 19 INSECT COLLECTIONS IN TUBES OF WATER. (FR)
C Gaspar S Krzelj C Verstraeten F Wolf
Gembloux Inst Agron Etat Bull 3(2):294-300
1968 105.1 G285
Diptera, Forests, Hymenoptera, Insect collecting equipment, Insect ecology, Quercus. French abstract

21682-68
A WAXED-PAPER LABORATORY CAGE FOR STERILIZATION STUDIES WITH THE ORIENTAL FRUIT MOTH, GRAPHOLITHA MOLESTA (BUSCK) (LEPIDOPTERA: TORTICIDAE).
J A George M G Howard
Entomol Soc Ontario Proc 95:146-147
1964 420 ON8
Fertility, Gamma rays, Grapholitha molesta, Insect cages, Laboratories, Morphology, Research, Sterilization.

21683-68
QUANTITATIVE RELATIONSHIPS BETWEEN FLEAS AND RODENTS IN A HAWAIIAN CANE FIELD.
G E Haas
Pacific Sci 23(1):70-82 REF

Jan 1969 475 P11
Host relationships, Quantitative analysis, Rodents, Siphonaptera, Sugarcane.

21684-68
A BIOCHEMICAL LOOK AT INSECT DIAPAUSE.
D K Hayes
Entomol Soc Amer Bull 14(2):108-111 REF
Jun 1968 423.9 EN8
Biochemistry, Biological control (insects), Cells, Insect eggs, Insect morphology, Insecticides, Metabolism, Reproduction, Temperature, Viscera.

21685-68
THE BIONOMICS AND ECOLOGY OF ANTHOCORIS CONFUSUS REUTER IN SCOTLAND.
A R Hill
Soc Brit Entomol Trans 18(PT. 3):35-48
Dec 1968 420 SO15
Anthocoridae, Demography, Insect ecology.

21686-68
EPIZOOTIOLOGICAL RESEARCH ON MILKY DISEASE CAUSED BY BACILLUS POPILLIAE (MELOLONTHA). (FR)
B Hurpin
Ann Epiphyt 18(2):127-173 REF
1967 464.9 F84AN
Bacillus popilliae, Bacteria, Insect diseases, Milky disease, Research. English summary

21687-68
THE FINE STRUCTURE OF THE GASTRIC CAECA OF AEDES AEGYPTI LARVAE.
J C Jones V H Zeve
J Insect Physiol 14(11):1567-1575 REF
Nov 1968 421 J825
Absorption, Aedes aegypti, Gastrointestinal system, Insect physiology, Microscopy, Mitochondria, Muscles.

21688-68
A LIST OF SINHALESE APHIDS (HEM., APHIDIDAE).
E Judenko V F Eastop
Entomol Mon Mag (SER 4)99(277-9,JAN-MAR):62-63
1963 421 EN86
Aphididae, Insect names, Insect taxonomy, Myzus persicae, Traps.

21689-68
ICHNEUMONOLOGICAL (HYM.) REPORTS FROM FINLAND I.
R Jussila
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(2):107-112 REF
30 Aug 1967 421 SU7
Ichneumonidae, Insect taxonomy.

Three species of Ichneumonid wasps new to Finland are taxonomically described.

21690-68
SYNANTHEDON FLAVIVENTRIS STGR. (LEP., AEGERIIDAE) FOUND IN SUOMESTA. (FI)
J Kaisila
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(2):125-129 MAP REF
30 Aug 1967 421 SU7
Insect ecology, Synanthedon, Zoogeography. German abstract

21691-68
STUDIES ON THE OLFACTORY STIMULI GUIDING THE BARK BEETLE BLASTOPHAGUS PINIPERDA L. (COLEOPTERA, SCOLYTIDAE) TO ITS HOST TREE.
E Kangas V Perttunen H Oksanen
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(3):181-211 REF
02 Nov 1967 421 SU7
Chemoreceptors, Insect biology, Pinus sylvestris, Plant biochemistry, Scolytidae.

21692-68
DEVELOPMENTAL CHANGES IN THE LATE LARVA OF CALLIPHORA STYGIA. I. OLYMPH.
J F Kinnear M D Martin J A Thompson G J Neufeld
Australian J Biol Sci 21(5):1033-1045 REF
Oct 1968 442.8 AU72
Biochemistry, Blood proteins, Calliphora stygia, Calliphoridae, Larvae, Metamorphosis.

21693-68
EFFECTS OF PARENTAL AGE ON THE LIFE CYCLE OF THE SOUTHERN GREEN STINK BUG, NEZARA VIRIDULA L. (HETEROPTERA: PENTATOMIDAE.
K Kiritani K Kimura
Appl Entomol Zool 2(2):69-78 REF
Jun 1967 SB599.A6
Aging, Insect eggs, Insect morphology, Insect physiology, Metamorphosis, Nezara viridula, Research.

21694-68
THE PRESENT DISTRIBUTION OF HYLOTRUPES BAJULUS L. (COL., CERAMBYCIDAE) IN NORWAY AND ITS ABUNDANCE IN SOME DISTRICTS.
P Knudsen A Bakke
Norsk Entomol Tidsskr 14(2):94-102 MAP REF
1967 421 N8I2
Cerambycidae, Demography, Insect ecology, Zoogeography.

21695-68
ACTION OF INSECT HORMONES ON THE FATE OF C-GLUCOSE IN THE DIAPAUSING, BRAINLESS PUPA OF SAMIA CYNTHIA PRYERI (LEPIDOPTERA: SATURNIIDAE).
M Kobayashi S Kimura M Yamazaki
Appl Entomol Zool 2(2):79-84 REF
Jun 1967 SB599.A6
Brain, Glucose compounds, Hormones, Insect morphology, Insect physiology, Metabolism, Samia cynthia pryeri, Tables (data).

21696-68
A PROBLEM IN THE DIAGNOSIS OF HEAD LICE.
F W Kutz
Entomol News (philadelphia) 80(1):27-28
Jan 1969 421 EN88
Diagnosis, Insect identification, Pediculus humanus capitis, Public health.

21697-68
BIOLOGY OF THE BLACK WIDOW SPIDER, LATRODECTUS HASSELTI THORELL (ARANEIDA: THERIDIIDAE).
B L Lariaso
Philippine Agr 51(2):171-180 REF
Jul 1967 25 P542
Insect rearing, Latrodectus, Life cycle, Oviposition, Sex behavior.

21698-68
THE NEUROSECRETORY CELLS OF THE BRAIN OF AEDES AEGYPTI IN RELATION TO LARVAL MOLT, METAMORPHOSIS AND OVARIAN DEVELOPMENT.
J R Larsen A Broadbent
Amer Microscop Soc Trans 87(4):395-410 REF
Oct 1968 440.9 AM33
Aedes aegypti, Histochemistry, Insect physiology, Metamorphosis, Nervous system, Ovaries.

21699-68
DEVELOPMENTAL INTERACTIONS IN THE DIPTERAN SALIVARY GLAND.
H Laufer
Amer Zool 8(2):257-271 REF
May 1968 410 AM3
Biochemistry, Chironomidae, Chromosomes, Insect histology, Insect physiology, Salivary glands (insects).

21700-68
CRICKET NUTRITION: SUPPLEMENTATION OF GRASS BY KNOWN NUTRIENTS.
T D Luckey P C Stone
J Insect Physiol 14(11):1533-1538 REF
Nov 1968 421 J825
Acheta domesticus, Blattella germanica, Diet, Experimental insects, Food additives, Grasses, Insect nutrition, Insect physiology.

21701-68
DISTRIBUTION AND ADAPTIVE DIVERSITY OF TRAPDOOR SPIDERS.
B Y Main
Australian Natur Hist 16(2):49-53
Jun 1968 475 AU7
Aging, Ctenizidae, Habitats, Insect behavior, Insect dissemination, Predaceous insects.

21702-68
THE RATE OF PASSAGE OF FOOD AND THE EFFECT OF TEMPERATURE IN TWO NOCTUID CATERPILLARS.
L M L Mathur
Ann Zool 5(6):57-64
23 May 1967 410 AN78
Digestion, Food habits, Insect physiology, Noctuidae, Temperature.

21703-68
TERRITORIAL BEHAVIOR OF BARK-BEETLE MALES.
J H McGhehey
Can Entomol 100(11):1153
Nov 1968 421 C16
Insect behavior, Scolytidae.

21704-68
ARE HYLEMYA CILICRURA AND HYLEMYA LITURATA TWO SEPARATE SPECIES.
D G R McLeod
Entomol Soc Ontario Proc 95:140-142
1964 420 ON8
Culture media, Diet, Hylemya cilicrura, Hylemya liturata, Insect cages, Laboratories, Research.

21705-68
ON MY ACQUAINTANCE WITH MIDDLE AND NORTHERN EUROPEAN SPECIES OF THE GENUS PSENULUS KOHL (HYM., SPHECOIDEA). (GE)
A K Merisuo
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(3):151-154
02 Nov 1967 421 SU7
Hymenoptera, Insect taxonomy, Zoogeography.

21706-68
STUDIES ON BIOLOGY OF BANMALIKA LEAF MINOR (AGROPISTIS LIMATUS, MOTH, COLEOPTERA, HALTICIDAE.) A SERIOUS PEST OF BANMALIKE (JASMINUM AQUESTIFOLIUM, VOHL.) IN RAJASTHAN.
V P Mital
Agra Univ J Res Sci 16(PT 1):89-91
Jan 1967 513 AG8
Chrysomelidae, Insect biology, Leaf miners, Plant diseases.

21707-68
STABILITY OF CHILO IRIDESCENT VIRUS. (JA)
J Mitsuhashi K Koyama
Jap J Appl Entomol Zool 11(4):177-181
Dec 1967 475 J27
Chemicals, Chilo, Iridescent virus, Research, Storage, Temperature. English summary

21708-68
THE EFFECT OF AGE, SKF 525- A HYDROCHLORIDE, AND CHLORCYCLIZINE DIHYDROCHLORIDE ON THE TOXICITY OF PARATHION TO ADULT ALKALI BEES, NOMIA MELANDERI CKLL.
M J Moradeshaghi
Diss Abstr Sect B 29(5):1722B
Nov 1968 Z5055.U49D53

Aging, Bees, Chlorides, Hydrogen, Nomia melanderi, Parathion, Toxicology.

21709-68
HOW FLIES FLY. (GE)
W Nachtigall
Kosmos 64(10):434-437
Oct 1968 474 K842
Coleoptera, Diptera, Grasshoppers, Insect anatomy, Insect behavior, Insect dissemination, Insect flight, Mechanization, Muscles, Nervous system.

21710-68
A CYTOLOGICAL STUDY OF CHANGES IN THE FAT BODY OF TROGODERMA GRANARIUM DURING METAMORPHOSIS, WITH SPECIAL REFERENCE TO THE PROTEINACEOUS GLOBULES.
K S S Nair G K Karnavar
J Insect Physiol 14(11):1651-1659 REF
Nov 1968 421 J825
Cytology, Fat body, Insect morphology, Insect physiology, Metamorphosis, Proteins, Research, Trogoderma granarium.

21711-68
STUDIES ON THE FEEDING BEHAVIOR OF GREEN RICE LEAFHOPPER, NEPHOTETTIX CINTICEPS UHLER. II. PROBING FREQUENCY OF THE ADULT LEAFHOPPER. (JA)
A Naito J Masaki
Jap J Appl Entomol Zool 11(4):150
Dec 1967 475 J27
Environment, Feeding, Insect behavior, Laboratories, Nephotettix cincticeps, Research. English summary

21712-68
ON THE REINFORM NEMATODE ROTYLENCHULUS NICOTIANA (YOKOO ET TANAKA, 1954) N. COMB. IN JAPAN (TYLENCHIDA: HOPLOLAIMIDAE). (JA)
K Nakasono M Ichinohe
Jap J Appl Entomol Zool 11(4):169-176 REF
Dec 1967 475 J27
Anatomy, Crops, Insect identification, Insect names, Research, Rotylenchulus nicotiana. English summary

21713-68
ACID PHOSPHATASE ACTIVITY IN THE DIGESTIVE SYSTEM OF THE DESERT LOCUST SCHISTOCERCA GREGARIA (FORSKAL).
S N H Naqui S H Ashrafi M A H Qadri
Australian J Biol Sci 21(5):1047-1052 REF
Oct 1968 442.8 AU72
Acid phosphatase, Biochemistry, Gastrointestinal system, Insect physiology, Schistocerca gregaria.

21714-68
ECOLOGICAL STUDIES OF CERTAIN NATURAL MORTALITY FACTORS OF THE SUGARCANE BORER, DIATRAEA SACCHARALIS (FABRICIUS) IN LOUISIANA.
A A G Negm
Diss Abstr Sect B 29(5):1722B
Nov 1968 Z5055.U49D53
Diatraea saccharalis, Ecology, Insect physiology, Mortality, Research, Sugarcane.

21715-68
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B Nickerson
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Feeding, Insect metabolism, Insect physiology, Insect respiration, Larvae, Rhodnius prolixus, Temperature.

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Electron microscopy, Insect histology, Musca domestica, Muscles.

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Cells, Dorsal vessel, Hyalophora cecropia, Insect anatomy, Insect physiology, Muscles.

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F Scherney E Naton H D Mueller
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Attractants, Biological control (pests), Insects, Integrated control (insects), Parasitism, Research, Sterilization.

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Drosophila melanogaster, Insect genetics, Insect physiology, Temperature.

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W Kaiser
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K Koenig
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Chrysanthemum morifolium, Fatty acids, Harvesting, Physiology, Plant anatomy, Plant injuries, Research, Spraying.

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H R Mayer
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Fruit, Grain, Organizations, Pesticides, Plant diseases, Plant protection.

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Cucumbers, Equipment, Physiology, Reproduction, Research, Ultraviolet rays.

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Anatomy, Cuticle, Naphthaleneacetic acid, Pears, Research, Temperature.

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L M Pike C E Peterson
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Cucumbers, Gibberellin a4, Gibberellin a7, Plant anatomy, Research, Spraying.

21795-68
INCREASED REVERSION OF AN APPLE SPORT FOLLOWING X IRRADIATION AND PRUNING, (ABSTRACT).
C Pratt D K Pireclu
Hortscience 3(2,SUMMER):92
1968 SB1.H6
Abnormalities, Apples, Harvesting, Irradiation, Pruning, Research, X-rays.

21796-68
EFFECTS OF ALAR TREATMENT ON GROWTH, FLOWERING, AND FRUITING OF GREENHOUSE TOMATO CULTIVARS, (ABSTRACT).
P E Read
Hortscience 3(2,SUMMER):101
1968 SB1.H6
Greenhouses, Physiology, Reproduction, Research, Succinic acid, 2,2-dimethylhydrazide, Tillage, Tomatoes.

21797-68
THE EFFECTS OF INTEGRATED PLANT PROTECTION METHODS.
K Russ
Pflanzenarzt 21(5):67-68
01 May 1968 464.9 P482
Biology, Chemosterilants, Ecology, Insect pests, Insecticides, Integrated control (insects), Methodology, Plant protection, Tables (data).

21798-68
AFLATOXIN PRODUCTION BY ASPERGILLUS FLAVUS AS RELATED TO VARIOUS TEMPERATURES.
A F Schindler J G Palmer W V Eisenberg
Appl Microbiol 15(5):1006-1009
Sep 1967 448.3 AP5
Aflatoxin, Aspergillus flavus, Culture media, Fungi, Microbiology, Physiology, Research, Temperature.

21799-68
FOREST PLANT PROTECTION PROBLEMS IN BAVARIA. (GE)
W Schwenke
Gesunde Pflanzen 20(10):208-210
Oct 1968 464.8 G33
Bacillus thuringiensis, Chemical control (insects), Forests, Insect pests, Plant injuries, Plant protection, Spraying, Weeds.

21800-68
BREEDING PEACHES FOR ROOT-KNOT NEMATODE RESISTANCE.
R H Sharpe C O Hesse B F Lownsberry C J Hansen
Hortscience 3(2,SUMMER):92
1968 SB1.H6
Breeding, Meloidogyne incognita, Meloidogyne javanica, Nematodes, Peaches, Plant diseases, Research.

21801-68
AUXIN (PLANT HORMONES) PRODUCTION IN PLANTS. (GE)
A R Sheldrake
Umschau 68(18):568
29 Aug 1968 474 UM7
Amino acids, Bacteria, Cells, Crown galls, Fungi, Indoleacetic acid, Plant hormones, Plant metabolism, Tryptophan.

21802-68
INSECTICIDES FROM PLANTS.
A A Siddiqui
Sci Chronicle 5(12):8-9
Jun 1967 Q1.0S33
Anabasine, Biochemistry, Insecticides, Nicotine, Nornicotine, Poisonous plants, Pyrethrum, Rotenone, Sabadilla.

21803-68
THE EFFECTS OF KINETIN IN OVERCOMING HIGH-TEMPERATURE INHIBITION OF LETTUCE SEED GERMINATION. (ABSTRACT).
O E Smith W Yen J M Lyons
Hortscience 3(2,SUMMER):124
1968 SB1.H6
Kinetin, Lettuce, Research, Seed germination, Temperature, Water.

21804-68
INFLUENCE OF GIBBERELLIN UPON TIME OF BUD DEVELOPMENT IN GLOBE ARTICHOKE (CYNARA SCOLYMUS). (ABSTRACT).
M J Snyder N C Welch V E Rubatzkt
Hortscience 3(2,SUMMER):101
1968 SB1.H6
Artichokes, Crop yields, Gibberellins, Plant morphology, Research.

21805-68
INFLUENCE OF GROWTH REGULATORS ON THE CONCENTRATION OF PROTEIN AND NUCLEIC ACIDS IN GRAPE FLOWERS. (ABSTRACT).
A Soleimani W M Kliewer R J Weaver
Hortscience 3(2,SUMMER):113
1968 SB1.H6
Grapes, Nucleic acids, Physiology, Plant regulators, Proteins, Research, Spraying.

21806-68
THE NEED FOR INTERNATIONAL TESTING CENTERS FOR CROP PESTS AND PATHOGENS.
E C Stakman
Entomol Soc Amer Bull 14(2):124-128
Jun 1968 423.9 EN8
Food supply, International cooperation, Laboratories, Plant disease resistance, Plant diseases, Plant pest resistance, Plant protection, Research, Supply and demand.

21807-68
PRODUCTION OF AFLATOXIN ON WHEAT AND OATS: MEASUREMENTS WITH A RECORDING DENSITOMETER.
R D Stubblefield O L Shotwell C W Hesseltine M L Smith
Appl Microbiol 15(1):186-190 REF
Jan 1967 448.3 AP5

Aflatoxin, Aspergillus flavus, Chromatography, Culture media, Fermentation, Oats, Wheat.

21808-68
CONCENTRATE SPRAY-THINNING OF APPLES. (ABSTRACT).
A H Thompson B L Rogers
Hortscience 3(2,SUMMER):91
1968 SB1.H6
Apples, Carbaryl, Harvesting, Pesticides, Research, Spraying, Thinning sprays.

21809-68
DISTRIBUTION OF SOLUBLE COMPONENT AND QUALITY FACTORS IN THE EDIBLE PORTION OF CITRUS FRUIT. (ABSTRACT).
S V Ting
Hortscience 3(2,SUMMER):113
1968 SB1.H6
Amino acids, Ascorbic acid, Chemistry, Citrus, Hydrogen-ion concentration, Research.

21810-68
PROJECT AND PROBLEMS OF PLANT PROTECTION IN THE DEVELOPING COUNTRIES. (GE)
W Tornow
Gesunde Pflanzen 20(7):137,138,140,1 2,144,146,148-149
Jul 1968 464.8 G33
Agricultural policies, Extension work, Pest control, Plant disease transmission, Plant protection.

21811-68
ARTIFICIAL LIGHT INDUCED LEAF LESIONS IN A DIPLOID SOLANUM ACCESSION. (ABSTRACT).
K N Wilsen D R Bienz
Hortscience 3(2,SUMMER):124
1968 SB1.H6
Equipment, Fluorescent lamps, Leaves, Plant physiology, Research, Solanaceae.

21812-68
THE ULTRASTRUCTURE OF PIRICULARIA ORYZAE CAV.
H K Wu T H Tsao
Acad Sinica Bot Bull (N s)8:353-363 REF
Oct 1967 451 AC10B
Anatomy, Cells, Crop yields, Cytoplasm, Pirieularia oryzae, Plant protection, Research, Rice. Japanese summary

21813-68
THE USE OF ACTIDIONE ON THE CONTROL OF RICE BLAST.
L H Yang T T Kuo L T Chou
Acad Sinica Bot Bull (N s):390-397
Oct 1967 451 AC10B
Blast (rice), Crop yields, Cycloheximide, Greenhouse culture, Piricularia oryzae, Rice, Seedlings. Japanese summary

DISEASES

21814-68
SURVIVAL OF ROOT-INFECTING FUNGI IN SOIL. III. THE EFFECT OF CELLULOSE AMENDMENT ON CHLAMYDOSPORE GERMINATION OF FUSARIUM SOLANI F. SP. PHASEOLI IN SOIL.
P B Adams G C Papavizas J A Lewis
Phytopathology 58(3):373-377 REF
Mar 1968 464.8 P56
Beans, Cellulose, Fungus diseases (plants), Fusarium solani phaseoli, Oat straw, Sodium nitrate, Soil amendments, Soil fungi, Spore germination.

21815-68
TOMATO BUSHY STUNT VIRUS FROM PRUNUS AVIUM L. I. FIELD STUDIES AND VIRUS CHARACTERIZATION.
W R Allen T R Davidson
Can J Bot 45(12):2375-2383 REF
Dec 1967 470 C16C
Bushy stunt (tomatoes), Mazzard cherries, Research, Virus diseases (plants).

21816-68
TOMATO BUSHY STUNT VIRUS FROM PRUNUS AVIUM. II. SEROLOGICAL TYPING AND THE CHARACTERIZATION OF ANTIBODY TYPES AND ACTIVITIES.
W R Allen
Can J Bot 46(3):229-233 REF
Mar 1968 470 C16C
Antibodies, Bushy stunt (tomatoes), Mazzard cherries, Serological tests, Virus diseases (plants).

21817-68
ELECTRON MICROSCOPIC OBSERVATIONS ON THE APPARENT REPLICATION IN VIVO OF A PLANT VIRUS.
H J Arnott K M Smith
Virology 34(1):25-35 REF
Jan 1968 448.8 V81
Biology, Electron microscopes, Plants, Research, Virus diseases (plants).

21818-68
AMERICAN COTTON IS ALLERGIC TO 2,4-D.
B Bakshi
Indian Farming 16(11):25
Feb 1967 22 IN283
D, 2,4-, Plant physiology, Toxicology, Upland cotton, Vapors.

The author discusses the susceptibility of upland cotton to 2,4-D vapors in India.

21819-68
CLONAL SELECTION OF GRAPEVINES IN SOME AREAS OF ITALY. (IT)
E Baldacci G Belli E Refatti R Cesati F Pessina
Riv Patol Veg (SER 4)3(1 JAN-MAR):15-22 REF
1967 464.8 R52
Chenopodium amarantieolor, Chenopodium quinoa, Clones, Forage plants, Gomphrena globosa, Grapes, Host indexing (plants), Virus diseases (plants). English summary

21820-68
RESEARCH AND IDENTIFICATION OF LOW LITRE AND AVIRULENT VIRUSES OR GRAPEVINES. (IT)
E Baldacci G Belli
Riv Patol Veg (SER4)3(1 JAN-MAR):4-14 REF
1967 464.8 R52
Biochemistry, Forage plants, Grapes, Host indexing (plants), Research, Virus diseases plants. English summary

21821-68
DEVELOPMENT OF DOWNY MILDEW RESISTANT BROCCOLI, CABBAGE, AND COLLARDS. (ABSTRACT).
W C Barnes
Hortscience 3(2,SUMMER):110
1968 SB1.H6
Broccoli, Cabbage, Crop yields, Kale, Morphology, Plant disease control, Research.

21822-68
DIFFERENCE IN PHENOLIC EXTRACTS FROM HEALTHY DOUGLAS-FIR ROOTS AND THOSE INFECTED WITH PORIA WEIRII.
G M Barton
Can J Bot 45(9):1545-1552 REF
Sep 1967 470 C16C
Fungus diseases (plants), Phenols, Plant extracts, Poria weirii, Pseudotsuga menziesii, Root rot (evergreens), Roots.

21823-68
FACTORS AFFECTING VIRULENCE AND PIGMENT PRODUCTION OF XANTHOMONAS PHASEOLI VAR. FUSCANS.
P K Basu V R Wallen
Can J Bot 45(12):2367-2374 REF
Dec 1967 470 C16C
Beans, Fungus diseases (plants), Seeds, Xanthomonas phaseoli.

21824-68
FREE AMINO ACIDS OF SUNFLOWER HYPOCOTYL TISSUE DURING CROWN GALL TUMOR DEVELOPMENT.
R M Behki S M Lesley
Can J Bot 46(3):217-223 REF
Mar 1968 470 C16C
Amino acids, Crown galls, Plant diseases, Sunflowers, Tissues.

21825-68
DIAMOND SPOT OF BANANAS CAUSED BY FUSARIUM ROSEUM 'GIBBOSUM.'.
L A Berg
Phytopathology 58(3):388-389
Mar 1968 464.8 P56
Bananas, Fungus diseases (plants), Fusarium roseum.

21826-68
TUMOR FORMATION THROUGH DEOXYRIBONUCLEIC ACID FROM AGROBACTERIUM TUMEFACIENS (SMITH AND TOWNSEND) CONN. (GE)
J Bieber E Sarfert
Phytopathol Z 62(4):323-326 REF
Aug 1968 464.8 P562
Agrobaeterium tumefaeiens, Cells, Crown galls, Deoxyribonueleie aeid, Plant diseases, Proteins. English summary

21827-68
ACCUMULATION OF AFLATOXINS IN STORED RICE IN RELATION TO COMPETITION BETWEEN ASPERGILLUS PARASITICUS AND A. CHEVALIERI. (ABSTRACT).
R A Boller H W Schroeder
Phytopathology 58(6):725-726
Jun 1968 464.8 P56
Aflatoxin, Aspergillus chevalieri, Aspergillus parasiticus, Fungus diseases (plants), Rice, Storage, Temperature.

21828-68
CHEMICAL, PHYSICAL AND BIOLOGICAL PROPERTIES OF FOUR STRAINS OF SUGARCANE MOSAIC VIRUS.
W P Bond
Diss Abstr Sect B 29(5):1540B-1541B
Nov 1968 Z5055.U49D53
Biology, Chemistry, Mosaic (sugarcane), Physiology, Properties, Sugarcane, Virus diseases (plants).

21829-68
EFFECTS OF TWO CARBAMATES ON SEVERAL PESTS OF PEACH.
H R Boyce
Entomol Soc Ontario Proc 95:125-127
1964 420 ON8
Carbamates, Grapholitha molesta, Insect pests, Panonychus ulmi, Peaches, Plant injuries, Research.

21830-68
STUDIES OF THE HOST-PARASITE RELATIONSHIP IN THE PINEAPPLE DISEASE OF SUGARCANE.
H W Boyd C C Allison
Phytopathology 58(6):839-842
Jun 1968 464.8 P56
Ceratocystis paradoxa, Fungus diseases (plants), Greenhouse culture, Pineapple disease, Sugarcane.

21831-68
THE RELATION OF GROWTH REGULATORS TO THE DEVELOPMENT OF SYMPTOMS AND EXPRESSION OF STEM RESISTANCE IN WHITE PINE INFECTED WITH BLISTER RUST.
M G Boyer
Can J Bot 45(4):501-513 REF
Apr 1967 470 C16C
Blister rust (pinus), Pinus, Plant disease resistance, Plant regulators.

21832-68
TOBACCO LEAF VEINS IN SOURCES OF A CUCUMBER MOSAIC VIRUS FOR APHIDS.

R H E Bradley
Virology 34(1):172-173
Jan 1968 448.8 V81
Aphididae, Cucumbers, Mosaic (cucumbers), Tobacco, Veins, Virus diseases (plants).

21833-68
TOXICITY OF FERMENTATION PRODUCTS ACCUMULATING IN WATERCORED 'DELICIOUS' APPLES. (ABSTRACT).
W J Bramlage R E Bir
Hortscience 3(2,SUMMER):122
1968 SB1.H6
Apples, Fermentation, Plant diseases, Plant injuries, Research, Temperature, Toxicology, Water core (apples).

21834-68
MEASUREMENT OF OXYGEN CONSUMPTION OF WHEAT STEM RUST UREDOSPORES WITH AN OXYGEN ELECTRODE.
L Bush
Phytopathology 58(6):752-754
Jun 1968 464.8 P56
Electrodes, Fungus diseases (plants), Oxygen, Plant physiology, Stem rust, Uredospores, Wheat.

21835-68
CITRUS FRUIT VIRUS DISEASES IN THE LIGHT OF THE RESULTS OF THE 4TH CONFERENCE OF THE I.O.C.V. (it)
A Catara
Riv Patol Veg (SER 4)3(1,JAN-MAR):47-82 REF
1967 464.8 R52
Citrus, Fruit, Virus diseases (plants).

21836-68
TAICHUNG NATIVE--1 VS BACTERIAL BLIGHT.
G V Chalam
Indian Farming 16(3):3,47,52
Jun 1966 22 IN283
Bacterial diseases (plants), Crop yields, Rice.

21837-68
HOST RANGE OF PEANUT STUNT VIRUS IN TRIFOLIUM SPP. (ABSTRACT).
D Choopanya J E Halpin
Phytopathology 58(6):726
Jun 1968 464.8 P56
Clover, Host indexing (plants), Peanuts, Stunt, Virus diseases (plants).

21838-68
ACCUMULATION OF HYPOXANTHINE IN POTATO LEAVES AND ITS EFFECT ON SPORE GERMINATION IN PHYTOPHTHORA INFESTANS.
M C Clark O T Page
Can J Bot 46(3):267-270
Mar 1968 470 C16C
Fungus diseases (plants), Hypoxanthine, Leaves, Phytophthora infestans, Potatoes, Seed germination, Spores.

21839-68
RELATIVE SIGNIFICANCE OF PARASITISM VERSUS SAPROPHYTISM IN COLONIZATION OF WHEAT STRAW BY FUSARIUM ROSEUM CULMORUM IN THE FIELD.
R J Cook G W Bruehl
Phytopathology 58(3):306-308
Mar 1968 464.8 P56
Fusarium roseum, Parasitism, Saprophytes, Wheat straw.

21840-68
INFLUENCE OF RHIZOPUS NIGRICANS EHRENB. ON THE DEVELOPMENT OF ALTERNARIA SOLANI (ELL. AND MART.) JONES AND GROUT.
C R Das A Pal
Phytopathol Z 63(1):40-46 REF
Sep 1968 464.8 P562
Alternaria solani, Fungus diseases (plants), Leaves, Plant physiology, Potatoes, Research, Rhizopus nigricans. German summary

21841-68
THE RELATIONSHIP BETWEEN CALCIUM MAGNESIUM, AND POTASSIUM ACCUMULATION AND TITRATABLE ACIDITY IN THE LEAVES OF SELECTED MCINTOSH APPLE CLONES. (ABSTRACT).
J C M Ddungu R Eggert
Hortscience 3(2,SUMMER):106-107
1968 SB1.H6
Absorption, Apples, Calcium, Deficiency diseases, Extracts, Leaves, Magnesium, Potassium, Research, Water.

21842-68
WRINKLED SKIN DISEASE OF APPLES. (FR)
H De Meirleire
Phytoma 19(193):31
Dec 1967 464.8 P563
Apples, Diagnosis, Plant diseases, Research, Skin diseases, Virus diseases (plants).

21843-68
BLOSSOM END ROT OF THE TOMATO. (FR)
H De Meirleire
Phytoma 19(193):30
Dec 1967 464.8 P563
Blossom end rot (tomatoes), Calcium, Diagnosis, Pimientos, Plant diseases, Plant water relations.

21844-68
THE NATA DE COCO. 2. CHEMICAL NATURE AND PROPERTIES OF NATA.
L S Dimaguila
Philippine Agr 51(6):475-488 REF
Nov 1967 25 P542
Acetobacter, Biochemistry, Coconuts.

21845-68
QUANTITATIVE MEASUREMENTS OF INTERACTIONS BETWEEN CROWN-GALL TUMORS AND THE PINTO BEAN HOST.
M D El Khalifa J A Lippincott
Amer J Bot 55(3):382-391 REF
Mar 1968 450 AM36
Agrobacterium tumefaciens, Crown galls, Kidney beans, Plant physiology.

21846-68
BIOCHEMICAL CHANGES DURING THE DEVELOPMENT OF CORK SPOT OF 'YORK IMPERIAL' APPLES. (ABSTRACT).
M Faust C B Shear
Hortscience 3(2,SUMMER):122
1964 SB1.H6
Apples, Biology, Chemistry, Cork spot (apples), Morphology, Research, Tissues.

21847-68
THE OCCURRENCE OF AN ASH-COLORED MOLD ON PEANUTS IN THE STATE OF SAO PAULO. (POR)
M B Figueiredo R M Cardoso
Biologico 34(10):217-220
Oct 1968 442.8 B529
Botrytis, Crop losses, Fungus diseases (plants), Peanuts.

21848-68
CYLINDROCLADIUM ROOT ROT OF BLACK WALNUT. (ABSTRACT).
T H Filer
Phytopathology 58(6):728
Jun 1968 464.8 P56
Cylindrocladium, Fungus diseases (plants), Juglans nigra, Root rot, Temperature.

21849-68
A SELECTIVE MEDIUM FOR ISOLATION OF PHYTOPHTHORA PARASITICA VAR. NICOTIANAE FROM SOIL. (ABSTRACT).
R A Flowers J W Hendrix
Phytopathology 58(6):728
Jun 1968 464.8 P56
Black shank, Culture media, Fungus diseases (plants), Phytophthora parasitica nicotianae, Soilborne plant diseases, Tobacco.

21850-68
GROWTH REGULATORS TO CONTROL LETTUCE BOLTING. (ABSTRACT).
R E Foster
Hortscience 3(2,SUMMER):102
1968 SB1.H6
Chemicals, Greenhouse culture, Lettuce, Plant diseases, Research, Spraying, Temperature.

21851-68
GONATOBOTRYS ZEAE SP. N. A NEW PATHOGEN ON CORN. (ABSTRACT).
C Futrell D C Bain
Phytopathology 58(6):728
Jun 1968 464.8 P56
Corn, Fungus diseases (plants), Gonatobotrys zeae, Plant taxonomy.

21852-68
HISTOCHEMICAL STUDIES ON THE ALTERATION OF LIGNIN AND PECTIC SUBSTANCES IN WHITE ELM INFECTED BY CERATOCYSTIS ULMI.
C Gagnon
Can J Bot 45(9):1619-1623 REF
Sep 1967 470 C16C
Ceratocystis ulmi, Fungus diseases (plants), Histochemistry, Lignin, Pectins, Research, Ulmus americana.

21853-68
LONGEVITY OF TOMATO PLANTS IN DISEASED FIELDS AS AFFECTED BY BREEDING. (ABSTRACT).
J C Gilbert J S Tanaka J T Chinn
Hortscience 3(2,SUMMER):110
1968 SB1.H6
Agricultural policies, Breeding, Longevity, Plant disease resistance, Research, Tomatoes.

21854-68
RATE OF MOVEMENT OF BARLEY YELLOW DWARF VIRUS OUT OF INOCULATED CEREAL LEAVES.
C C Gill
Phytopathology 58(6):870-871
Jun 1968 464.8 P56
Aphididae, Barley, Grain, Immunization, Insect vectors, Leaves, Oats, Plant translocation, Virus diseases (plants), Yellow dwarf.

21855-68
TRANSMISSION OF TOBACCO MOSAIC VIRUS IN GRAPE SEEDS.
R M Gilmer L J Kelts
Phytopathology 58(3):277-278
Mar 1968 464.8 P56
Grapes, Mosaic, Mosaic (tobacco), Seed-borne plant diseases, Seeds, Virus diseases (plants).
Abstract: The possible role of the pollen parent in causing seed infection is not known.

21856-68
BURLEY TOBACCO NATURALLY INFECTED WITH PEANUT STUNT VIRUS IN NORTH CAROLINA. (ABSTRACT).
G V Jr. Goodling
Phytopathology 58(6):728
Jun 1968 464.8 P56
North carolina, Peanuts, Stunt, Tobacco, Virus diseases (plants).

21857-68
VERTICILLIUM WILT OF TOMATOES. TESTS WITH RESISTANT LINES.
R Gottl R J Conroy
Agr Gaz New S Wales 78(PT 9):504-506
Sep 1967 23 N472
Fungus diseases (plants), Plant breeding, Plant disease resistance, Tomatoes, Verticillium dahliae.
The development and testing of Verticillium wilt resistant tomatoes in Australia is discussed.

21858-68
RELATIVE QUANTITIES OF ANTIFUNGAL METABOLITES PRODUCED IN RESISTANT AND SUSCEPTIBLE SOYBEAN PLANTS IN-

OCULATED WITH PHYTOPHTHORA MEGASPERMA VAR. SOJAE AND CLOSELY RELATED NONPATHOGENIC FUNGI.
G Gray W L Klarman M Bridge
Can J Bot 46(3):285-288
Mar 1968 470 C16C
Fungus- diseases (plants), Metabolites, Phytophthora megasperma, Plant disease resistance, Soybeans.

21859-68
CANKER OF PEACHES BY FUSICOCCUM AMYGDALI . BIOLOGY OF THE PARASITE AND METHODS OF CONTROL. (FR)
C Groselaude
Rev Zool Agr Appl 66(7-9, 3RD TRIMESTER):103-110
1967 410.9 SO12
Canker, Chemical control (plant diseases), Fungus diseases (plants), Fusicoccum amygdali, Peaches.

21860-68
PRODUCTION OF PECTIC AND CELLULOLYTIC ENZYMES BY PHYTOPHTHORA INFESTANS DE BY. II. INFECTION OF POTATO TUBERS. (GE)
F Grossman
Phytopathol Z 63(1):15-22 REF
Sep 1968 464.8 P562
Assay, Cellulase, Enzymes, Pectins, Phytophthora infestans, Plant extracts, Potatoes, Research, Tissues. English summary.

21861-68
INFECTION AND DEVELOPMENT OF HELMINTHOSPORIUM SOROKINIANUM IN AGROSTIS PALUSTRIS.
M J Healy M P Britton
Phytopathology 58(3):273-276 REF
Mar 1968 464.8 P56
Fungus diseases (plants), Golf courses, Helminthosporium sorokinianum, Turf.

21862-68
THREE-YEAR EFFECTS OF SYSTEMIC FUNGICIDES APPLIED FOR THE CONTROL OF CYTOSPORA IN ITALIAN PRUNE TREES.
A W Helton W J Keehan
Can J Bot 45(11):2017-2020
Nov 1967 470 C16C
Cytospora, Fungicides, Plant physiology, Plums, Time.

21863-68
A DISTINCTION BETWEEN PUCCINIASTRUM GOEPPERTIANUM AND P. EPILOBII WITH CLARIFICATION OF STATUS OF PERIDERMIUM HOLWAYI AND PER. ORNAMENTALE.
Y Hiratsuka L E McArthur F J Emond
Can J Bot 45(10):1913-1915
Oct 1967 470 C16C
Fungus diseases (plants), Peridermium holwayi, Peridermium ornamentale, Pucciniastrum epilobii, Pucciniastrum goeppertianum.

21864-68
FACTORS GOVERNING ZOOSPORE RESPONSES OF PHYTOPHTHORA MEGASPERMA VAR. SOJAE TO PLANT ROOTS.
H H Ho C J Hickman
Can J Bot 45(11):1983-1994 REF
Nov 1967 470 C16C
Fungus diseases (plants), Peas, Phytophthora megasperma, Plant physiology, Roots, Soybeans, Zoospores.

21865-68
GENETIC ANALYSIS IN RICE, VIII. INHERITANCE OF RESISTANCE TO RACES 4, 22 AND 25 OF PIRICULARIA ORYZAE.
S C Hsieh M H Lin H L Liang
Acad Sinica Bot Bull (N s)8:255-260 REF
Oct 1967 451 AC10B
Blast (rice), Injections, Leaves, Piricularia oryzae, Plant protection, Research, Rice. Japanese summary

21866-68
EFFECT OF ANTIFUNGAL COMPOUNDS ON ASPERGILLOSIS IN HATCHING CHICK EMBRYOS.
C N Huhtanen J M Pensack
Appl Microbiol 15(1):102-109
Jan 1967 448.3 AP5
Amphotericin b, Aspergillus flavus, Aspergillus fumigatus, Chick embryos, Research, Water.

21867-68
ANALYSIS OF EPIDEMICS OF THE TOBACCO (PERONOSPOR TABACINA ADAM) MILDEW IN THE GEMBLOUX AREA. (FR)
R Jadot
Gembloux Inst Agron Etat Bull 3(2):308-327 REF
1968 105.1 G285
Belgium, Humidity, Peronospora tabacina, Plant disease transmission, Spore germination, Temperature, Tobacco. English and Afrikaan abstract

21868-68
TOBACCO MOSAIC VIRUS STRAINS IN GREENHOUSE TOMATOES.
M H Jensen B L Pollack E H Varney
Hortscience 3(2,SUMMER):124
1968 SB1.H6
Greenhouses, Mosaic (tobacco), Research, Serological tests, Tomatoes.

21869-68
THE MODE OF SEEDLING INFECTION OF GRAIN SORGHUM WITH SCLEROSPORA SORGHI. (ABSTRACT).
B L Jones
Phytopathology 58(6):729
Jun 1968 464.8 P56
Fungus diseases (plants), Plant disease transmission, Selerospora sorghi, Seedlings, Sorghum.

21870-68
ORCHARD SANITATION AND BROWN ROT CONTROL.
P F Kable
Agr Gaz New S Wales 78(PT 11):665
Nov 1967 23 N472
Brown rot, Crop losses, Fruit, Orchards, Sanitation control (pests).

21871-68
STUDIES ON SOME STRAINS OF TOBACCO MOSAIC VIRUS IN ORCHIDS. I. BIOLOGICAL, CHEMICAL, AND SEROLOGICAL STUDIES.
C I Kado M H V Van Regenmortel C A Knight
Virology 34(1):17-24 REF
Jan 1968 448.8 V81
Biology, Chemistry, Mosaic (tobacco), Orchidaceae, Research, Serological tests, Virus diseases (plants).

21872-68
VIRULENCE OF RHIZOCTONIA SOLANI AS INFLUENCED BY AGE OF INOCULUM IN SOIL.
M Kamal A R Weinhold
Can J Bot 45(9):1761-1765 REF
Sep 1967 470 C16C
Fungus diseases (plants), Rhizoctonia solani, Soils, Time.

21873-68
NON-RANDOM SEGREGATION OF GENE 1 FOR FUSARIUM RESISTANCE IN THE TOMATO.
N Kedar N Betig J Katan
Euphytica 16(2):258-266
Sep 1967 450 EU6
Fungus diseases (plants), Fusarium, Genetics, Plant disease resistance, Tomatoes.

21874-68
THE EFFECT OF SEVERAL DITHIOCARBAMATE FUNGICIDES ON BLACK SPOT CONTROL AND FRUIT QUALITY IN VALENCIA ORANGES.
T B Kiely
Agr Gaz New S Wales 78(PT 5):309-317
May 1967 23 N472
Black spot (oranges), Bordeaux mixture, Carbamates, Guignardia, Oranges.

21875-68
THE EFFECT OF LEAF WATER BALANCE ON THE SUSCEPTIBILITY OF FRENCH BEAN TO TOBACCO NECROSIS VIRUS.
W C Kimmins R E Litz
Can J Bot 45(11):2115-2118
Nov 1967 470 C16C
Beans, Leaves, Necrosis, Plant disease resistance, Tobacco, Virus diseases (plants), Water.

21876-68
SUSCEPTIBILITY TO TOBACCO MOSAIC VIRUS IN RELATION TO RNA AND PROTEIN SYNTHESIS IN TOBACCO AND BEAN PLANTS.
Z Kiraly M El Hammady B I Pozsar
Phytopathol Z 63(1):47-63 REF
Sep 1968 464.8 P562
Beans, Biochemistry, Metabolism, Mosaic (tobacco), Plant disease resistance, Proteins, Ribonucleic acid, Tobacco, Virus diseases (plants). German summary.

21877-68
MATHEMATICAL MODELS FOR INFECTIVITY DILUTION CURVES OF PLANT VIRUSES.
A Kleczkowski
Virology 34(1):186-187
Jan 1968 448.8 V81
Mathematical analysis, Mathematics, Virus diseases (plants).

21878-68
IDENTIFICATION OF TWO SEROTYPES IN SQUASH MOSAIC VIRUS STRAINS.
H K Knuhtsen M R Nelson
Phytopathology 58(3):345-347
Mar 1968 464.8 P56
Cantaloupes, Electrophoresis, Mosaic, Mosaic (watermelons), Pumpkins, Serological tests, Virus diseases (plants), Watermelons.

21879-68
BREEDING GLASSHOUSE CUCUMBERS IN THE NETHERLANDS.
E Kooistra
Hortscience 3(2,SUMMER):107
1968 SB1.H6
Breeding, Cucumbers, Fungus diseases (plants), Greenhouse culture, Research.

21880-68
INFLUENCE OF SEED SIZE ON THE INCIDENCE OF LOOSE SMUT IN FUNZA BARLEY. (SP)
C F Krull G Robayo L A Valbuena G Rico L E Castiblanco
Agr Trop 23(1):20-25
Jan 1967 26 AG8
Barley, Fungus diseases (plants), Loose smut (barley), Seeds, Ustilago nuda.

21881-68
RESPIRATORY PATTERNS IN TRIFOLIUM PRATENSE INOCULATED AND NONINOCULATED WITH ERYSIPHE POLYGONI.
G C M Latch E W Hanson
Phytopathology 58(3):297-300 REF
Mar 1968 464.8 P56
Erysiphe polygoni, Fungus diseases (plants), Leaves, Plant disease resistance, Plant respiration, Powdery mildew, Red clover.

21882-68
A FURTHER LOOK AT NECK ROT IN ONIONS.
G S Lawes
New Zeal J Agr 114(1):50-51
Jan 1967 23 N48J
Botrytis allii, Fertilizers, Fungicides, Neck rot (onions), Onions, Soil series.
Neck rot of onions caused by Botrytis allii in New

Zealand is discussed as well as the control of the fungus with fungicides and other methods.

21883-68
MAJOR AND MINOR GENES IN WHEAT FOR RESISTANCE TO PUCCINIA STRIIFORMIS AND THEIR RESPONSES TO TEMPERATURE CHANGES.
R T Lewellen E L Sharp E R Hehn
Can J Bot 45(11):2155-2172 REF
Nov 1967 470 C16C
Fungus diseases (plants), Genetics, Puccinia striiformis, Temperature, Wheat.

21884-68
OZONE DAMAGE AND SEMIMATURE-TISSUE NEEDLE BLIGHT OF EASTERN WHITE PINE.
S N Linzon
Can J Bot 45(11):2047-2061 REF
Nov 1967 470 C16C
Fungus diseases (plants), Needle blight (pinus), Ozone, Pinus strobus, Plant injuries, Tissues.

21885-68
HISTOLOGICAL STUDIES OF SYMPTOMS IN SEMIMATURE-TISSUE NEEDLE BLIGHT OF EASTERN WHITE PINE.
S N Linzon
Can J Bot 45(1):133-143 REF
Jan 1967 470 C16C
Histology, Needle blight (pinus), Pinus strobus, Plant diseases, Research.

21886-68
THE INCIDENCE OF CROWN ROT OF BOXED BANANAS IN RELATION TO MICROBIAL POPULATIONS OF THE CROWN TISSUE.
F L Lukezic W J Kaiser M M Martinez
Can J Bot 45(4):413-421
Apr 1967 470 C16C
Bacterial diseases (plants), Bananas, Crown rot (bananas), Microbiology.

21887-68
FIELD TEST OF LABORATORY RESULTS IN SELECTING SEED DRESSING FUNGICIDES AGAINST SEED-BORNE DISEASES OF JUTE (CORCHORUS CAPSULARIS L.).
S Mahboob-E-Ilah Q A Ahmed
Pakistan J Sci Res 19(4):163-170
Oct 1967 475 P173
Fungicides, Fungus diseases (plants), Jute, Seed-borne plant diseases.

21888-68
PESTS OF CULTIVATED PLANTS IN FINLAND IN 1967.
M Markkula
Ann Agr Fenn 7(2):107-110
1968 20 AN7
Catalogs, Crop yields, Insect pests, Nematodes, Plant diseases, Zoogeography.

21889-68
THERMAL STABILITY OF STEM RUST RESISTANCE IN OAT SEEDLINGS.
J W Martens R I A McKenzie G J Green
Can J Bot 45(4):451-458 REF
Apr 1967 470 C16C
Fungus diseases (plants), Oats, Plant disease resistance, Seedlings, Stem rust (oats), Temperature.

21890-68
DISEASE DEVELOPMENT IN GUAR (CYAMOPSIS PSORALOIDES DC.) AND GRAM (CICER ARIETINUM L.) ATTACKED WITH SCLEROTIUM ROLFSII UNDER DIFFERENT SOIL PH CONDITIONS.
S B Mathur S Sinha
Phytopathol Z 62(4):319-322
Aug 1968 464.8 P562
Chickpeas, Crop losses, Guar, Sclerotium rolfsii, Seedlings, Soil hydrogen-ion concentration, Soil-borne plant diseases. German summary.

21891-68
VARIATION IN RESPONSE TO IRON NUTRITION AMONG SOME CORN INBREDS. (ABSTRACT).
D N Maynard S Odurukwe
Hortscience 3(2,SUMMER):110
1968 SB1.H6
Chlorosis (plants), Corn, Deficiency diseases, Environment, Iron, Physiology, Research.

21892-68
PREVENTIVE MEASURES CAN CONTROL BUNCHY TOP.
M R Menon S P Christudas
Indian Farming 16(2):22-23
May 1966 22 IN283
Aphididae, Bunchy top (bananas), Chemical control (insects), Insect vectors, Virus diseases (plants).

Control of the bunchy top virus of bananas and its aphid vector is discussed.I//uui s1india

21893-68
CHLAMYDOSPORE FORMATION IN CONIDIA OF HELMINTHOSPORIUM SATIVUM.
R A Meronuck E H Pepper
Phytopathology 58(6):866-867 REF
Jun 1968 464.8 P56
Barley, Fungus diseases (plants), Helminthosporium sativum, Plant physiology, Spot blotch.

21894-68
RESEARCH ON FUSARIUM DISEASES. II. ECOLOGY AND PATHOLOGY OF FUSARIUM OXYSPORUM. (FR)
J A Meyer
Ann Epiphyt 18(2):241-247 REF
464.9 F84AN
Ecology, Fungus diseases (plants), Fusarium, Fusarium oxysporum, Research. English summary

21895-68
AN ARYLSULFATASE IN THE WOOD-ROTTING BASIDIOMYCETE, FOMES GEOTROPUS.
F H Milazzo G J Lougheed
Can J Bot 45(4):532-534
Apr 1967 470 C16C
Arylsulfatase, Fomes geotropus, Wood, Wood destroying fungi.

21896-68
BACTERIAL SCAB, SCLEROTINIA AND BOTRYTIS ROTS OF GLADIOLUS CORMS.
Agr Gaz New S Wales 78(PT 6):BACK COVER
Jun 1967 23 N472
Botrytis gladiolorum, Chemical control (plant diseases), Cultural control (plant diseases), Gladiolus, Plant diseases, Pseudomonas, Sclerotinia.

21897-68
FOOT-ROT OF WHEAT.
Agr Gaz New S Wales 78(PT 10):598-601
Oct 1967 23 N472
Cultural control (plant diseases), Fungus diseases (plants), Root rot, Seedbeds, Superphosphates, Wheat.

Control of wheat foot rot by baring fallow infested land, crop rotation, seedbed preparations, and stubble burning is discussed.

21898-68
VIRUS DISEASES OF DECIDUOUS FRUIT TREES: APPLE MOSAIC.
Agr Gaz New S Wales 78(PT 9):BACK COVER
Sep 1967 23 N472
Crop losses, Germ-free life, Mosaic (apples), Plant quarantine, Virus diseases (plants).

21899-68
POWDERY MILDEW OF THE GRAPEVINE.
Agr Gaz New S Wales 78(PT 11):BACK COVER
Nov 1967 23 N472
Chemical control (plant diseases), Fungus diseases (plants), Oidium, Powdery mildew (grapes), Sulfur.

Symptoms and chemical control of powdery mildew of grapes are discussed.

21900-68
TOMATO SPOTTED WILT (TOMATO SPOTTED WILT VIRUS).
Agr Gaz New S Wales 78(PT 10):BACK PAGE
Oct 1967 23 N472
Chemical control (insects), Dimethoate, DDT, Insect vectors, Spotted wilt (tomatoes), Thrips tabaci, Virus diseases (plants).

21901-68
RHIZOCTONIA STEM ROT.
Agr Gaz New S Wales 78(PT 2):BACK COVER
Feb 1967 23 N472
Chemical control (plant diseases), Fungus diseases (plants), Pentachloronitrobenzene, Rhizoctonia, Soil sterilization, Stem rot.

21902-68
INTERCEPTIONS IN PLANT QUARANTINE FOR THE YEAR ENDING 30TH JUNE, 1966.
Agr Gaz New S Wales 78(PT 1):52-53
Jan 1967 23 N472
Catalogs, Fungus diseases (plants), Plant quarantine, Virus diseases (plants).

21903-68
LOOSE SMUT OF WHEAT.
Agr Gaz New S Wales 78(PT 4):BACK COVER
Apr 1967 23 N472
Air-borne plant diseases, Hot water treatment (plants), Seed-borne plant diseases, Smut (wheat), Ustilago nuda, Wheat.

Symptoms of wheat smut caused by Ustilago nuda and its control are discussed.

21904-68
SCLEROTIUM STEM ROT.
Agr Gaz New S Wales 78(PT 1):BACK COVER
Jan 1967 23 N472
Chemical control (plant diseases), Fungus diseases (plants), Pentachloronitrobenzene, Sclerotium rolfsii, Stem rot.

21905-68
BACTERIAL CANKER OF TOMATO (CORYNEBACTERIUM MICHIGANENSE).
Agr Gaz New S Wales 78(PT 8):BACK COVER
Aug 1967 23 N472
Bacterial canker, Chemical control (plant diseases), Corynebacterium michiganense, Crop losses, Tomatoes.

The symptoms of bacterial canker of tomatoes and measures for its control and prevention are discussed.

21906-68
GENETIC STUDY OF THE RESISTANCE OF COFFEA SPP. TO LEAF RUST I. IDENTIFICATION AND BEHAVIOR OF FOUR FACTORS CONDITIONING DISEASE REACTION IN COFFEA ARABICA TO TWELVE PHYSIOLOGIC RACES OF HEMILEIA VASTATRIX.
M Noronha-Wagner A J Bettencourt
Can J Bot 45(11):2021-2031 REF
Nov 1967 470 C16C
Coffee, Fungus diseases (plants), Genetics, Hemileia vastatrix, Leaf rust (coffee), Plant disease resistance, Plant physiology, Research.

21907-68
FERTILIZER-FUNGICIDE COMBINATIONS FOR THE CONTROL OF PYTHIUM DAMPING-OFF OF TOBACCO.
F P Obrero T T Reyes A N Pordesimo
Philippine Agr 51(3):231-240 REF
Aug 1967 25 P542
Chemical control (plant diseases), Fertilizers, Fungicides, Pythium debaryanum, Seed treatment, Tobacco.

21908-68
INVESTIGATIONS OF INHIBITING MECHANISMS IN VIRUS-INFECTED PLANTS. 3RD COMMUNICATION. PROBLEMS OF THE

MECHANICAL TRANSMISSION OF FRUIT VIRUS TO HERBACEOUS HOST. (GE)
H Opel H Kegler
Phytopathol Z 63(1):75-95 REF
Sep 1968 464.8 P562
Fruit, Leaves, Plant disease transmission, Proteins, Research, Tables (data), Virus diseases (plants). English summary

21909-68
VIRUS DISEASE SURVEY ON CITRUS IN AEGEAN REGION. (TU)
M O Ozalp T Azeri
Bitki Koruma Bulteni 7(4):167-187 REF
1967 464.8 B542
Citrus, Host indexing (plants), Insect pests, Insect vectors, Plant disease transmission, Research, Surveys, Tables (data), Tree diseases, Virus diseases (plants). English summary

21910-68
DISTRIBUTION OF LOOSE SMUT OF WHEAT (USTILAGO TRITICI (PERS) IN THE YEAR OF 1965 IN TURKEY.
M Ozkan A Esen
Bitki Koruma Bulteni 6(3):77-93
1966 464.8 B542
Plant diseases, Plant injuries, Seedlings, Smut (wheat), Ustilago tritici, Wheat.

21911-68
CONTROL OF RICE BLAST THROUGH FORECASTS AND FUNGICIDES.
S 4 Padmanabhan
Indian Farming 16(3):7-8
Jun 1966 22 IN283
Blast (rice), Fungicides, Rice.

21912-68
SIX POWDERY MILDEWS FROM JAMMU AND KASHMIR STATE.
V R Pandotra J L Kachroo K S M Sastry
Indian Acad Sci Proc Sect B 67(3):119-124
Mar 1968 513 IN250B
Fungus diseases (plants), Mycology, Plants, Powdery mildew (plants).

21913-68
SURVIVAL OF ROOT-INFECTING FUNGI IN SOIL. II. INFLUENCE OF AMENDMENT AND SOIL CARBON-TO-NITROGEN BALANCE ON FUSARIUM ROOT ROT OF BEANS.
G C Papavizas J A Lewis P B Adams
Phytopathology 58(3):365-372 REF
Mar 1968 464.8 P56
Beans, Carbon, Fungus diseases (plants), Fusarium solani phaseoli, Nitrogen compounds, Root rot, Soil amendments, Soil fungi.

21914-68
THE AUTOECIOUS SPECIES OF PUCCINIA ON HELIANTHEAE IN NORTH AMERICA.
J A Parmelee
Can J Bot 45(12):2267-2327 REF
Dec 1967 470 C16C
Fungus diseases (plants), Helianthcae, Puccinia, Uredinales.

21915-68
SYSTEMATIC BREEDING PROGRAMME TO COMBINE RESISTANCE TO PHYTOPHTHORA AND THE QUALITY OF THE POTATO VARIETY BINTJE.
J A J Poos
Euphytica 16(2):167-170
Sep 1967 450 EU6
Fungus diseases (plants), Phytophthora, Plant breeding, Plant disease resistance, Potatoes.

21916-68
ALTERATIONS IN THE PEACH TREES (CV. RED HAVEN) ATTACKED BY TAPHRINA DEFORMANS WITH PARTICULAR REFERENCE TO THE NITROGEN METABOLISM IN INFECTED AND NON-INFECTED LEAVES.
V Raggi
Can J Bot 45(4):459-477 REF
Apr 1967 470 C16C
Leaves, Metabolism, Nitrogen, Peaches, Plant diseases, Plant physiology, Taphrina deformans, Trees.

21917-68
RESEARCH ON THE NATURAL DIFFUSION OF SOIL-BORNE GRAPE VIRUS DISEASES IN THE ITALIAN ENVIRONMENT. (IT)
E Refatti A Amici E Betto G Belli F Librini
Riv Patol Veg (SER 4)3(1,JAN-MAR):35-45
1967 464.8 R52
Environment, Grapes, Research, Soils, Virus diseases (plants). English summary

21918-68
RADIAL MOSAIC VIRUS OF GRAPEVINES. (IT)
E Refatti
Riv Patol Veg (SER 4)3(1,JAN-MAR):23-34 REF
1967 464.8 R52
Grapes, Host indexing (plants), Necrosis, Virus diseases (plants), Xiphinema index. English summary

21919-68
ERRATUM: REACTIONS OF LODGEPOLE PINE TO ATTACK BY DENDROCTONUS PONDEROSAE HOPKINS AND BLUE STAIN FUNGI.
R W Reid H S Whitney J A Watson
Can J Bot 46(4):523
Apr 1968 470 C16C
Blue stain (pinus sylvestris), Dendroctonus ponderosae, Fungus diseases (plants), Pinus, Plant disease resistance.

21920-68
PENETRANCE OF GENE I FOR FUSARIUM RESISTANCE IN THE TOMATO.
N Retig N Kedar J Katan
Euphytica 16(2):252-257
Sep 1967 450 EU6
Fungus diseases (plants), Fusarium, Genetics, Plant disease resistance, Tomatoes.

21921-68
LETTUCE TIPBURN AND NITROGEN METABOLISM. (ABSTRACT).
S K Ries L Baker S Ashkar
Hortscience 3(2,SUMMER):124
1968 SB1.H6
Greenhouses, Lettuce, Metabolism, Nitrogen, Research, Tipburn (lettuce).

21922-68
FUNGICIDES CAN CHECK BLACK BAND OF JUTE.
A K Roy M K Shome
Indian Farming 16(3):16
Jun 1966 22 IN283
Captan, Diplodia, Fungicides, Fungus diseases (plants), Jute.

21923-68
THE INHERITANCE AND NATURE OF ALBINISM, INVOLUCRE SHAPE, AND CHLOROPHYLL DEFICIENCY IN LETTUCE. (ABSTRACT).
E J Ryder
Hortscience 3(2,SUMMER):95
1968 SB1.H6
Albinism, Chlorophylls, Color, Lettuce, Morphology, Plant nutritional deficiencies, Research.

21924-68
THE 'NATA DE COCO'. I. CHARACTERIZATION AND IDENTITY OF THE CAUSAL ORGANISM.
L A Saturnino-Dimaguila
Philippine Agr 51(6):462-474 REF
Nov 1967 25 P542
Acetobacter, Bacteriology, Coconuts.

21925-68
INVESTIGATIONS CONCERNING THE SEROLOGICAL PROOF OF THE NECROTIC RINGSPOT VIRUS OF THE SOUR CHERRY. III. THE SEROLOGICAL VARIABILITY OF THE NECROTIC RINGSPOT VIRUS OF THE SOUR CHERRY. (GE)
C Schade
Phytopathol Z 62(4):334-342 REF
Aug 1968 464.8 P562
Cherries, Necrotic ring spot (cherries), Prunus, Research, Serological tests, Virus diseases (plants). English summary.

21926-68
AFLATOXINS: PRODUCTION OF THE TOXINS IN VITRO IN RELATION TO TEMPERATURE.
H W Schroeder H Hein Jr.
Appl Microbiol 15(2):441-445
Mar 1967 448.3 AP5
Aflatoxin, Aspergillus flavus, Cottonseed, Culture media, Fungus diseases (plants), Peanuts, Rice, Temperature.

21927-68
THE DYNAMICS OF VIRUS-INDUCED CHANGES IN THE RELEASE OF SUBSTANCES FROM LEAVES AND SPROUTS. (GE)
G Schuster
Phytopathol Z 62(4):351-364
Aug 1968 464.8 P562
Leaves, Plant disease control, Plant physiology, Research, Tables (data), Virus diseases (plants). English summary

21928-68
SEROLOGICAL BEHAVIOR OF CUCUMBER MOSAIC VIRUS (STRAIN Y) AND THE VIRUS PROTEIN.
H A Scott
Virology 34(1):79-90 REF
Jan 1968 448.8 V81
Cucumbers, Mosaic (cucumbers), Serological tests, Virus diseases (plants).

21929-68
PETIOLE DISEASE OF COCONUT IN PAPUA.
D E Shaw C Booth
Papua New Guinea Agr J 19(2):89-93
Sep 1967 23 N453
Coconuts, Fungicides, Fungus diseases (plants).

21930-68
EFFECT OF GROWTH-REGULATORS ON TRANSLOCATION AND DISTRIBUTION OF AMINO ACIDS, ORGANIC ACIDS, AND SUGARS IN MUSCAT OF ALEXANDRIA GRAPES. (ABSTRACT).
W W Shindy W M Kliewer R J Weaver
Hortscience 3(2,SUMMER):113
1968 SB1.H6
Amino acids, Chemicals, Grapes, Organic compounds, Plant physiology, Plant regulators, Plant translocation, Research, Sugars.

21931-68
MAGNESIUM NUTRITION OF APPLE TREES AS AFFECTED BY A WIDE RANGE OF FERTILIZER MATERIALS. (ABSTRACT).
C B Smith
Hortscience 3(2,SUMMER):106
1968 SB1.H6
Apples, Deficiency diseases, Fertilizers, Leaves, Magnesium, Research, Trees.

21932-68
MORPHOLOGY AND PATHOGENICITY OF SINGLE-SPORE ISOLATES OF ALTERNARIA LONGIPES. (ABSTRACT).
E K Sohers
Phytopathology 58(6):731
Jun 1968 464.8 P56
Alternaria longipes, Brown spot, Fungus diseases (plants), Plant morphology, Spores, Tobacco.

21933-68
CAN TAICHUNG NATIVE--I STAND UP TO BACTERIAL BLIGHT .
D N Srivastava V P Rao J C Durgapal
Indian Farming 16(2):15
May 1966 22 IN283
Bacterial diseases (plants), Crop losses, Plant disease resistance, Rice.

21934-68
NEW APPROACHES IN DISEASE CONTROL.

D N Srivastava
Indian Farming 16(6):38-39,149
Sep 1966 22 IN283
Bacterial diseases (plants), Chemical control (plant diseases), Cultural control (plant diseases), Rice.

The epidemiology and control of bacterial blight and other rice diseases are given.

21935-68
BIOLOGICAL CHARACTERISTICS OF FOMES FOMENTARIUS FOUND ON SPRUCE AND BIRCH.
P A Suvorov
Can J Bot
Oct 1967 470 C16C
Betula, Biology, Fomes fomentarius, Fungus diseases (plants), Picea, Properties.

21936-68
VITAVAX- A NEW SYSTEMIC FUNGICIDE. (GE)
H D Tate B V Schmeling
Pflanzenschutzberichte 37(12):193-196
Jun 1968 464.9 P48
Biochemistry, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin,2,3-, Fungicides, Fungus diseases (plants), Rhizoctonia solani, Tilletia caries, Tilletia controversa, Ustilago hordei, Ustilago nuda. English summary given at 6th International Congress for Plant Protection vienna, 1967.

21937-68
PURIFICATION AND PROPERTIES OF BROAD BEAN WILT VIRUS.
R H Taylor P R Smith C Reinganum A J Gibbs
Australian J Biol Sci 21(5):929-935 REF
Oct 1968 442.8 AU72
Broadbeans, Serological tests, Virus diseases (plants), Wilt (broadbeans).

21938-68
NOTES ON THE SMUT GENERA ENTORRHIZA AND SCHROETERIA.
M J Thirumalachar M D Whitehead
Amer J Bot 55(2):183-186 REF
Feb 1968 450 AM36
Catalogs, Taxonomy, Ustilaginales.

21939-68
A STUDY ON THE EPIDEMIOLOGY OF STRIPE RUST, PUCCINIA STRIIFORMIS WEST., IN CALIFORNIA.
H Tollenaar B R Houston
Can J Bot 45(3):291-307 MAP REF
Mar 1967 470 C16C
Epidemiology, Fungus diseases (plants), Puccinia striiformis, Research, Stripe rust (wheat), Wheat.

21940-68
THE USE OF DENSITY GRADIENT CENTRIFUGATION IN A ZONAL CENTRIFUGE ROTOR DURING THE PRUIFICATION OF A PEAR VIRUS.
J A Tomlinson S H Smith
J Gen Virol (3,PT 1):153-156
Jul 1968 Q0R360.0A10J6
Centrifugation, Density, Pears, Research, Tables (data), Virus diseases (plants).

21941-68
THE INFLUENCE OF INDUCED SOIL MOISTURE STRESS UPON FOMES ANNOSUS ROOT ROT OF LOBLOLLY PINE.
B Towers W J Stambaugh
Phytopathology 58(3):269-272 REF
Mar 1968 464.8 P56
Fomes annosus, Fungus diseases (plants), Greenhouse culture, Pinus taeda, Root rot, Soil moisture, Temperature.

21942-68
EFFECT OF MAIZE DWARF MOSAIC VIRUS INFECTION ON RESPIRATION AND PHOTOSYNTHESIS OF CORN.
J C Tu R E Ford
Phytopathology 58(3):282-284 REF
Mar 1968 464.8 P56
Corn, Dwarf disease, Mosaic, Photosynthesis, Respiration, Virus diseases (plants).

21943-68
COMPARISONS OF CHLOROPLASTS AND PHOTOSYNTHETIC RATES OF PLANTS INFECTED AND NOT INFECTED BY MAIZE DWARF MOSAIC VIRUS.
J C Tu R E Ford C J Krass
Phytopathology 58(3):285-288 REF
Mar 1968 464.8 P56
Chloroplasts, Corn, Dwarf disease, Mosaic, Photosynthesis, Sorghum, Virus diseases (plants).

21944-68
CONTRIBUTION TO THE PHYSIOLOGICAL STUDY ON THE EFFECT OF THE SUBSTANCE ISOLATED FROM CONIDIA OF THE FUNGUS ERYSIPHE GRAMINIS F. SP. HORDEI MARCHAL.
G Vizarova A Janitor
Phytopathol Z 62(4):311-318 REF
Aug 1968 464.8 P562
Erysiphe graminis, Fungus diseases (plants), Indoleacetic acid, Oats, Plant physiology, Research, Seed germination. German summary

21945-68
SEROLOGICAL STUDIES ON BROMEGRASS MOSAIC VIRUS AND ITS PROTEIN FRAGMENTS.
M B Von Wechmar M H V Van Regenmortel
Virology 34(1):36-45 REF
Jan 1968 448.8 V81
Bromus, Mosaic (bromus), Proteins, Serological tests, Virus diseases (plants).

21946-68
NEW RECORDS OF PLANT DISEASES IN NEW SOUTH WALES.
J Walker
Agr Gaz New S Wales 78(PT 1):47-51 MAP
Jan 1967 23 N472
Bacterial diseases (plants), Catalogs, Fungus diseases (plants), Plant diseases, Plant nematodes, Zoogeography.

21947-68
ISOLATION, INCIDENCE, AND VIRULENCE OF ASCOCHYTA SPP. OF PEAS FROM THE SOIL.
V R Wallen S I Wong J Jeun
Can J Bot 45(12):2243-2247 REF
Dec 1967 470 C16C
Ascochyta, Fungus diseases (plants), Peas, Soils.

21948-68
FINE STRUCTURE OF INCLUSIONS FORMED BY THE AUCUBA STRAIN OF TOBACCO MOSAIC VIRUS.
H E Warmke
Virology 34(1):149-159 REF
Jan 1968 448.8 V81
Aucuba mosaic (tobacco), Inclusion bodies, Physiology, Tobacco, Virus diseases (plants).

21949-68
SOME SEASONAL ASPECTS OF THE GROWTH OF TUMORS ON THE WHITE SPRUCE, PICEA GLAUCA.
P R White G Tsoumis F Hyland
Can J Bot 45(11):2229-2232
Nov 1967 470 C16C
Picea glauca, Plant diseases, Plant galls, Plant physiology, Seasons.

21950-68
COMPARATIVE SUSCEPTIBILITY OF LARGE AND SMALL SPRUCE ROOTS TO POLYPORUS TOMENTOSUS.
R D Whitney
Can J Bot 45(11):2227-2229
Nov 1967 470 C16C
Fungus diseases (plants), Picea, Plant disease resistance, Polyporus tomentosus, Roots.

21951-68
SOME EFFECTS OF A GROWTH RETARDANT ON SHOOT MERISTEMS OF APPLE. (ABSTRACT).
M Wilde L J Edgerton
Hortscience 3(2,SUMMER):125
1968 SB1.H6
Abnormalities, Apples, Dimethyl amino succinamic acid, N-, Histology, Plant regulators, Research, Seedlings, Spraying.

21952-68
DETERIORATION OF TREATED AND UNTREATED COTTONSEED DURING HUMID STORAGE.
A B Wiles
Phytopathology 58(3):289-293
Mar 1968 464.8 P56
Bacterial diseases (plants), Cottonseed, Fungicides, Fungus diseases (plants), Humidity, Mercury compounds, Seed germination, Storage.

Abstract: Used surface sterilization with alcoholic mercuric chloride, and surface treatment with organic mercury fungicide.

21953-68
EFFECT OF CYTOKININS ON APPLE SHOOT DEVELOPMENT FROM AXILLARY BUDS.
M W Williams E A Stahly
Hortscience 3(2,SUMMER):68-69
1968 SB1.H6
Apples, Chemicals, Mitosis, Morphology, Plant hormones, Research, Trees.

21954-68
FINE STRUCTURE OF PLASMODIOPHORA BRASSICAE IN SPOROGENESIS.
P H Williams S S McNabola
Can J Bot 45(9):1665-1669 REF
Sep 1967 470 C16C
Anatomy, Cells, Fungus diseases (plants), Plant physiology, Plasmodiophora brassicae.

21955-68
THE EFFECT OF SCAB RESISTANCE ON FRUIT LENGTH IN SLICING CUCUMBERS. (ABSTRACT).
J N Wilson H M Munger
Hortscience 3(2,SUMMER):107-110
1968 SB1.H6
Cucumbers, Physiology, Plant diseases, Research, Scab (cucumbers).

21956-68
MICRONUTRIENT EFFECTS ON THE IN VITRO GROWTH AND PATHOGENICITY OF FUSARIUM OXYSPORUM F. SP. LYCOPERSICI.
S S Woltz J P Jones
Phytopathology 58(3):336-338
Mar 1968 464.8 P56
Boron, Copper, Culture media, Fungus diseases (plants), Fusarium oxysporum lycopersici, Iron, Manganese, Micronutrients, Molybdenum, Plant nutritional deficiencies, Plant physiology, Tomatoes, Wilt, Zinc.

21957-68
SELECTIVE RETENTION OF UREDOSPORES BY LEAVES.
C E Yarwood
Phytopathology 58(3):359-361 REF
Mar 1968 464.8 P56
Beans, Fungus diseases (plants), Leaves, Rust, Spore germination, Water.

ARTHROPODS

21958-68
VIRUS DISEASES OF THE ROSE. (GE)
F Afscharpour H Faber
Gesunde Pflanzen 19(11):226,228-231 REF
Nov 1967 464.8 G33

Insect control, Insect vectors, Nematodes, Plant quarantine, Rosa, Therapeutics, Virus diseases (plants), Water. Viruses noted were: rose mosaic, rose yellow mosaic, rose streak virus, rose wilt, rose die-back, rose virus 1,2, and 3, apple mosaic, peach mosaic, rose cowl, and rose mottling.

21959-68
CONTROL OF BACHACS.
Agr Soc Trinidad Tobago J 67(1):13-15
Mar 1967 8 T73
Agricultural legislation, Atta, Pest control, Plant protection.

21960-68
CONTROL OF THE BANANA WEEVIL.
Agr Soc Trinidad Tobago J 68(1):23-24
Mar 1968 8 T73
Bananas, Chemical control (insects), Cosmopolites sordidus, Dieldrin, Plant injuries.

21961-68
EFFECTS OF PHENOLS ON THE PLANT.
S Amer E M Ali
Beit Biol Pflanz 44:59-65
1968 450 C66
Crops, Insect control, Insect pests, Phenols, Research, Seed germination, Seed treatment.

21962-68
HELIOTHIS SPECIES LEPIDOPTERA: NOCTUIDAE IN PAPUA AND NEW GUINEA.
J H Barrett
Papua New Guinea Agr J 19(2):61-66 REF
Sep 1967 23 N453
Catalogs, Chemical control (insects), Heliothis, Insect taxonomy.

21963-68
SEVERAL OBSERVATIONS ON THE NATURE OF THE SPRING DEVELOPMENT OF CHERMES TARDUS DREYF. (FR)
R Baurant
Gembloux Inst Agron Etat Bull 3(2):226-233
1968 105.1 G285
Adelges, Aphididae, Chemical control (insects), Insect biology. English, German and Afrikaan abstract

The activities of the Fundatrix- stage of the spruce gall aphid, Chermes tardes were observed prior to the budbreak of its host-plant. Chemical sprays were found effective when used before March 9 in the 1967 study.

21964-68
BANANA BEETLE BORER CONTROL INVESTIGATIONS ON THE NORTH COAST OF NEW SOUTH WALES.
B M Braithwaite
Agr Gaz New S Wales 78(PT 6):359-365
Jun 1967 23 N472
Aldrin, Bananas, Chemical control (insects), Cosmopolites sordidus, Dieldrin, Heptachlor.

21965-68
TRANSMISSION OF TRANSITORY YELLOWING VIRUS OF RICE BY TWO LEAFHOPPERS.
R Chiu J Jean M Chen T Lo
Phytopathology 58(6):740-745 REF
Jun 1968 464.8 P56
Insect vectors, Nephotettix cincticeps, Plant disease transmission, Rice, Virus diseases (plants).

21966-68
A CONTRIBUTION TO THE FRUIT FLY RESISTENCE IN CERTAIN LINES OF CORN AND HYBRIDS. (GE)
B Dolinka
Pflanzenschutzberichte 38(8/9):115-122 REF
Jul 1968 464.9 P48
Breeding, Corn, Crop losses, Insect pests, Oscinella frit, Plant injuries, Research. English summary

21967-68
CACAO FLUSH DEFOLIATING CATERPILLARS IN PAPUA AND NEW GUINEA.
G S Dun
Papua New Guinea Agr J 19(2):67-71
Sep 1967 23 N453
Cacao, Catalogs, Caterpillars, Insect pests.

21968-68
OBSERVATIONS ON PENETRATION OF LINDEN BRANCHES BY STYLETS OF THE APHID LONGISTIGMA CARYAE.
R F Evert W Eschrich J T Medler F J Alfieri
Amer J Bot 55(7):860-874 REF
Aug 1968 450 AM36
Aphididae, Food habits, Plant physiology, Saliva, Stylets, Tilia americana.

21969-68
SOME OBSERVATIONS ON EGG DIAPAUSE IN THE TRINIDAD SUGAR CANE FROGHOPPER, AENEOLAMIA VARIA SACCHARINA (HOMOPTERA, CERCOPIDAE).
D W Fewkes
Entomol Mon Mag (SER.4)99(287-8):224-228
Nov 1963 421 EN86
Acneolamia varia saecharina, Crop yields, Environment, Histology, Insect morphology, Reproduction, Research, Sugarcane.

21970-68
SOME FACTORS INFLUENCING CONTROL OF THE TWO-SPOTTED SPIDER MITE TETRANYCHUS URTICAE KOCH (ACARINA: TETRANYCHIDAE), ON GREENHOUSE CUCUMBERS.
W H Foott
Entomol Soc Ontario Proc 95:108-115
1964 420 ON8
Acaricides, Cucumbers, Greenhouses, Insect control, Research, Spraying, Tetranychus urticae.

21971-68
INSECTICIDE TREATMENT OF WATER LILY PONDS TO STOP CADDIS FLY DAMAGE.
J G Gellatley
Agr Gaz New S Wales 78(PT 7):421-422
Jul 1967 23 N472
Aquatic plants, Chemical control (insects), Dimethoate, Trichoptera.

21972-68
MITES OF CAMELLIA.
F A Gibson
Agr Gaz New S Wales 78(PT 11):663-664
Nov 1967 23 N472
Camellia, Chemical control (insects), Mites, Sulfur compounds.

Chemical control of three camellia mites in Australia with lime sulfur is discussed.

21973-68
THE SITONA WEEVIL--A PEST OF LUCERNE (SITONA HUMERALIS).
L R Greenup
Agr Gaz New S Wales 78(PT 9):528-529
Sep 1967 23 N472
Alfalfa, Azinphosethyl, Chemical control (insects), DDT, Insect behavior, Sitona.

The life cycle, occurrence, dispersal, and chemical control of the Sitona weevil of alfalfa in Australia is discussed.

21974-68
CICADAS AS PESTS IN NEW SOUTH WALES.
L R Greenup
Agr Gaz New S Wales 78(PT 1):42-46
Jan 1967 23 N472
Cicadidae, Grapes, Plant injuries.

21975-68
THE BLUE OAT MITE PENTHALEUS MAJOR (DUGES) (ACARINA: EUPODIDAE).
L R Greenup
Agr Gaz New S Wales 78(PT 7):410-411
Jul 1967 23 N472
Chemical control (insects), DDT, Grain, Grasses, Penthaleus major.

Chemical control of the blue oat mite, Penthaleus major, a grain and pasture crop pest in Australia is discussed.

21976-68
RESULTS OF EFFICIENCY STUDIES ON CARBARYL IN GRANULAR FORM AT 5 PER CENT AND 7.5 PER CENT OF THE ACTIVE INGREDIENT FOR THE CONTROL OF PYRALIDS OF CORN. (FR)
D Hadzistevic
Rev Zool Agr Appl 66(4-6, 2ND TRIMESTER):44-48
1967 410.9 SO12
Carbaryl, Chemical control (insects), Corn, Insecticides, Ostrinia nubilalis, Pyralidae.

Details of the life history of the codling plum moth were confirmed experimentally throughout 1966.

21977-68
PESTS.
P. Israel
Indian Farming 16(6):26,120-121
Sep 1966 22 IN283
Chemical control (insects), Cultural control (insects), Rice.

Chemical and agronomic controls of insect pests of rice in India are discussed

21978-68
CUTTING DOWN CANE LOSSES FROM TERMITES AND SHOOT BORER.
A N Kalra
Indian Farming 16(8):28-29
Nov 1966 22 IN283
Chlordane, Diatraea saccharalis, Dusting, Heptachlor, Insect control, Insecticides, Sugareane, Telodrin, Termites.

21979-68
COLEOPTERA ATTACKING TREE AND SHRUB PLANTINGS IN THE CITY OF KHARKOV.
Yu P Maksimova
Entomol Rev 46(4,OCT-DEC):471-474
Dec 1967 421 R322AE
Catalogs, Coleoptera, Predaceous insects, Shrubs, Trees, Zoogeography. Russian journal pp. 799-804

21980-68
CHENOPODIUM TEST FOR THE DEMONSTRATION OF THE PRESENCE OF THE LETTUCE MOSAIC VIRUS 1 IN SEEDS. (GE)
J Marrou
Umschau 68(6):185
14 Mar 1968 474 UM7
Aphididae, Chenopodium, Methodology, Mosaic (lettuce), Research, Seeds, Virus diseases (plants).

21981-68
THE USE OF ATTRACTANTS IN PEST CONTROL. (GE)
K Mayer
Gesunde Pflanzen 20(6):120,122,124-126 REF
Jun 1968 464.8 G33
Ammonia, Attractants, Biochemistry, Chemical control (insects), Citrus, Geraniol, Insect eggs, Insect repellents, Oils, Pest control, Pheromones, Population, Sex attractants, Social insects.

21982-68
STUDIES ON BIOLOGY OF BANMALIKA LEAF MINOR (AGROPISTIS LIMATUS, MOTH., COLEOPTERA, HALTICIDAE.) A SERIOUS PEST OF BANMALIKA (JASMINUM AQUESTIFOLIUM, VOHL.) IN RAJASTHAN.
V P Mital
Agra Univ J Res Sci 16(PT 1):89-91
Jan 1967 513 AG8
Chrysomelidae, Jasminum, Leaf miners, Life cycle.

21983-68
CUTWORMS AND ARMYWORMS.
Agr Gaz New S Wales 78(PT 4):230-233
Apr 1967 23 N472
Carbaryl, Chemical control (insects), Cultural control (insects), DDT, Natural control (insects), Noctuidae, Trichlorfon.

Prevention and chemical and cultural controls for

army and cutworms in Australian crops are discussed.

21984-68
THE PEAR AND CHERRY SLUG.
Agr Gaz New S Wales 78(PT 3):182-183
Mar 1967 23 N472
Caliroa cerasi, Chemical control (insects), Cherries, Lead arsenate, Malathion, Mevinphos, Pears.

Chemical control of Caliroa cerasi larvae, a pear and cherry leaf pest is discussed.

21985-68
ON THE TWO MEGASTIGMUS SPECIES (HYM., TORYMIDAE) OF THE JUNIPER SEED (JUNIPERUS COMMUNIS L.). (GE)
M Nuorteva
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(2)2121-124 REF
30 Aug 1967 421 SU7
Hymenoptera, Juniperus, Seeds.

21986-68
SEASONAL AND ZONAL DISTRIBUTION OF ICHNEUMONIDAE (HYM.) ON A SUBARCTIC FELL DURING A CALAMITY OF THE GEOMETRID MOTH OPORINIA AUTUMNATA (BKH.) ON BIRCHES.
P Nuorteva R Jussila
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(3):155-163 REF
02 Nov 1967 421 SU7
Betula, Geometridae, Ichneumonidae, Seasonal variation, Zoogeography.

21987-68
CARABIDAE AND STAPHYLINIDAE OCCURING ON SOIL SURFACE IN LUCERNE FIELDS.
R Obrtel
Acta Ent Bohemoslov 1(65):5-20 REF
1968 420 C33
Alfalfa, Carabidae, Epidemiology, Field crops, Insect outbreaks, Insect pests, Precipitation, Soil horizons, Staphylinidae, Temperature.

21988-68
HONEY BEES AS POLLINATORS OF RED CLOVER.
T Palmer-Jones
New Zeal J Agr 114(1):34-35
Jan 1967 23 N48J
Apis mellifera, Clover, Pollination.

21989-68
NEW METHODS OF PEST CONTROL.
M D Pathak
Indian Farming 16(6):37,128-131,156
Sep 1966 22 IN283
Biological control (insects), Chemical control (insects), Insecticides, Integrated control (insects), Lindane, Methyl parathion, Rice.

Chemical, biological and integrated control of insect pests of rice in the Philippines are presented.

21990-68
ON THE USE OF ENTOMOPATHOGENIC BACTERIA TOGETHER WITH INSECTICIDES IN THE CONTROL OF INSECT PESTS.
V P Pristavko
Entomol Rev 46(4,OCT-DEC):443-446 REF
Dec 1967 421 R322AE
Bacteria, Entomogenous fungi, Insecticides, Integrated control (insects), Leptinotarsa decemlineata. Russian journal pp. 753-759

21991-68
DD-136 NEMATODE THAT CAN KILL MANY INSECT PESTS.
V P Rao T M Manjunath
Indian Farming 16(2):43-44
May 1966 22 IN283
Bacteria, Biological control (insects), Insect control, Nematodes.

The life cycle, and potential use of a nematode, DD-136, for control of various crop pests is discussed. A partial host list is included.

21992-68
CHANGES IN THE YIELD AND PROTEIN QUANTITY OF OAT CAUSED BY RHOPALOSIPHUM PADI (L.) (HOM., APHIDIDAE).
J Rautapaa
Ann Agr Fenn 7(2):95-104 REF
1968 20 AN7
Crop yields, Oats, Proteins, Rhopalosiphum padi.

21993-68
TESTS FOR INHERITANCE OF DIELDRIN-RESISTANCE IN THE CABBAGE MAGGOT, HYLEMYA BRASSICAE (BOUCHE).
D C Read
Entomol Soc Ontario Proc 95:128-132
1964 420 ON8
Cabbage, Dieldrin, Equipment, Genetics, Hylemya brassicae, Insect rearing, Research.

21994-68
INSECTICIDES, FUNGICIDES AND ANTIBIOTICS.
S Singh
Indian Farming 16(6):51,53,151
Sep 1966 22 IN283
Antibiotics, Chemical control (pests), Chemical control (weeds), Fungicides, Insecticides, Rice.

A discussion of equipment and chemical agents used for the control of rice pests in India is given.

21995-68
THE WESTWARD MOVEMENT OF PINK BOLLWORM.
J F Spears
Entomol Soc Amer Bull 14(2):118-119
Jun 1968 423.9 EN8
Cotton, Insect biology, Insect control, Insect migration, Insect pests, Pectinophora gossypiella, Plant injuries, Population.

21996-68
REACTION OF TOMATO VARIETIES AND BREEDING LINES TO APHIDS.
A K Stoner R E Webb A G Gentile
Hortscience 3(2,SUMMER):77
1968 SB1.H6
Breeding, Macrosiphum euphorbiae, Research, Tomatoes, Weather.

21997-68
SELECTING TOMATOES FOR RESISTANCE TO SPIDER MITES.
A K Stoner
Hortscience 3(2,SUMMER):110
1968 SB1.H6
Insect identification, Leaves, Plant injuries, Research, Tetranychus cinnabarinus, Tomatoes.

21998-68
STUDY OF AN ITONIDID (CONTARINIA MEDICAGINIS KIEFFER) AND OF ITS HOST. (FR)
M G Strebler
Paris Acad Agr France Compt Rend Seances Hebd 54(8):584-586
15 May 1968 14 P215BC
Contarinia, Corn, Crop losses, Life cycle.

21999-68
RESEARCH ON THE CHEMICAL CONTROL OF ACERIA SHELDONI. (TU)
C Tokmakoglu O Z Soylu M Y Celik
Bitki Koruma Bulteni 7(4):155-166
1967 464.8 B542
Acaricides, Aceria sheldoni, Biochemistry, Chemical control (insects), Chemicals, Citrus, Insect migration, Insect pests, Population, Research, Spraying. English summaries. Chemicals used were: chlorobenzilate, chloropropylate and eradex.

22000-68
WAR ON LOCUSTS GOES ON.
M Woodstock
Indian Farming 16(2):20
May 1966 22 IN283
Acrididae, Insect control.

A brief description of the British Ministry of Overseas Development's activity concerning the control of locusts is presented.

22001-68
SUSCEPTIBILITY TO INSECTICIDES OF THE GREEN RICE LEAFHOPPER, NEPHOTETTIX CINCTICEPS UHLER, COLLECTED FROM VARIOUS LOCALITIES. (JA)
K Yoshioka T Iwata
Jap J Appl Entomol Zool 11(4):193-195
Dec 1967 475 J27
Chemical control (insects), Geography, Insecticides, Nephotettix cincticeps, Research, Rice.

NEMATODES

22002-68
TRANSMISSION AND MORPHOLOGICAL STUDIES OF DISEASED H VICTORIAE.
B Anastasiadis
Diss Abstr Sect B 29(5):1540B
Nov 1968 Z5055.U49D53
Culture media, Fungi, Helminthosporium victoriae, Morphology, Nematodes, Research.

22003-68
PROBLEMS OF NEMATODE CONTROL IN BAVARIAN POTATO CULTURES. (GE
P Behringer
Gesunde Pflanzen 20(10):227,228,230-231
Oct 1968 464.8 G33
Biochemistry, Chemical control (nematodes), Crop rotation, Nematodes, Plant nematode resistance, Potatoes, Research, Soils.

22004-68
EFFICACY OF VORLEX ON MITES AND NEMATODES ON GLADIOLUS CORM DEBRIS IN SANDY SOILS OF FLORIDA. (ABSTRACT).
A W Engelhard A J Overman
Phytopathology 58(6):727
Jun 1968 464.8 P56
Biochemistry, Chlorinated hydrocarbons, Gladiolus, Meloidogyne, Methyl isothiocyanate, Mites, Plant nematodes, Plant pest control, Sandy soils. Vorlex is a mixture of chlorinated hydrocarbons and methyl isothiocyanate.

22005-68
CONCERNING THE DISTRIBUTION OF FREELY OCCURRING NEMATODES OF THE GENUS PRATYLENCHUS ON AGRICULTURALLY USED AREAS IN WESTPHALIA-LIPPE. (GE)
A Kemper
Gesunde Pflanzen 20(6):127-130
Jun 1968 464.8 G33
Crop rotation, Crops, Ditylenchus dipsaci, Fertilizers, Heterodera avenae, Nematodes, Pratylenchus, Soil hydrogen-ion concentration, Soil testing.

22006-68
RED RING (RADINAPHELENCHUS COCOPHILUS) OF THE COCONUT TREE IN THE ZONE OF TUMACO (NARINO). (SP)
A Sanchez Potes
Agr Trop 23(7):433-449 REF
Jul 1967 26 AG8
Arsenites, Chemical control (insects), Chemical control (nematodes), Curculionidae, Endrin, Insect vectors, Plant disease transmission, Plant nematodes, Red ring (coconuts), Zoogeography.

22007-68
PROBLEMS OF THE CONTROL OF THE CEREAL CYST NEMATODE (HETERODERA AVENAE) IN BAVARIA. (GE)
F Wagner P Behringer
Gesunde Pflanzen 20(10):231-233
Oct 1968 464.8 G33

Crop losses, Grain, Heterodera avenae, Nematodes, Pest control, Plant injuries, Plant nematode resistance, Plant protection, Zoogeography.

WEEDS

22008-68
SOME IMPORTANT WEEDS IN THE NORTHERN TERRITORY.
Anonymous
2P
0000 SB613.A8H3
Weeds.

22009-68
CHEMICAL CONTROL OF WEEDS IN DRAINS.
G J Batten
New Zeal J Agr 114(4):26-29
Apr 1967 23 N48J
Aquatic weeds, Chemical control (weeds), Herbicides.

The chemical control of weeds in drains in New Zealand is discussed giving specific directions for control of blackberry, raupo, mercer, and purva grasses, rushes, water milfoil and reed sweetgrass.

22010-68
FLURENOL- A HERBICIDE WITH NEW PROPERTIES. (GE)
J Berker
Gesunde Pflanzen 20(5):102,104-106
May 1968 464.8 G33
Biochemistry, Chemical control (weeds), Grain, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Plant physiology, Roots, Soil adsorption.

22011-68
EXPERIMENTAL RESULTS CONCERNING THE CHEMICAL CONTROL OF WEEDS IN YOUNG LUCERNE FIELDS. (RUM)
A Ciorlaus H Bredt M Enica M Guta D Halalau et. al.
Probl Agr 20(9):21-30
1968 21 R862
Alfalfa, Chemical control (weeds), Herbicides. English, Russian and French abstracts

22012-68
TRIFLURALIN-TREATED CLOTH CONTROLS WEEDS IN GERANIUM PLANTINGS. (ABSTRACT).
L L Danielson
Hortscience 3(2,SUMMER):140-141
1968 SB1.H6
Chemical control (weeds), Equipment, Pelargonium hortorum, Planting, Research, Soils, Temperature, Trifluralin.

22013-68
EXPERIMENTS WITH TORDON HERBICIDE IN SMALL GRAINS.
R L Gantz I. E Warren
Weed Soc Amer Abstr 1966 MEETING:4
1966 241 W41
Barley, Chemical control (weeds), D, 2,4-, Grain, Herbicides, Picloram, Polygonum convolvulus, Spraying, Wheat.

22014-68
CHANGED METHOD OF NATA USE IN THE CONTROL OF AGROPYRON REPENS ON ARABLE LAND. (GE)
F Herbold
Gesunde Pflanzen 19(11):236-238
Nov 1967 464.8 G33
Agropyron repens, Antitoxins, Biochemistry, Chemical control (weeds), Clay soils, Crop rotation, Methodology, Plant translocation, Tillage, Toxicology, Trichloroacetic acid.

22015-68
EFFICACY OF A STALE SEEDBED APPROACH FOR PROVIDING WEED CONTROL IN PICKLING CUCUMBERS. (ABSTRACT).
F D Hess A R Putnam
Hortscience 3(2,SUMMER):98
1968 SB1.H6
Chemical control (weeds), Cucumbers, Herbicides, Research, Seedbeds.

22016-68
THE FIELD THISTLE (CIRSIUM ARVENSE SCOP.)IN THE GRASSLANDS. BIOLOGY AND MEANS OF CONTROL. (FR)
P Limbourg
Gembloux Inst Agron Etat Bull 3(2):331-340 REF
1968 105.1 G285
Chemical control (weeds), Cirsium arvense, Pastures, Picloram. French abstract

22017-68
THE THREE R'S OF HERBICIDE USE.
M K Mathur
Indian Farming 16(2):18-19
May 1966 22 IN283
Herbicides, Time.

Mathematical calculations for the formulation of various liquid and dry herbicides along with a list of their active ingredients are given. The type, dosage and application times of herbicides for Indian crops are discussed.

22018-68
WEEDICIDES IN SEDGE CONTROL TRIALS.
D M E Merry
New Zeal J Agr 114(4):44-45,47
Apr 1967 23 N48J
Carex, Chemical control (weeds), Herbicides, Weed control.

Herbicides for control of Australian sedge in New Zealand are discussed. Most effective chemicals and application methods are given.

22019-68
CONTROLLING HAIRGRASS (DESCHAMPSIA CAESPITOSA). (GE)
J Meyer H P Hadenfelt
Gesunde Pflanzen 20(4):75-79
Apr 1968 464.8 G33
Biochemistry, Calcium, Chemical control (weeds), Deschampsia, Herbicides, Paraquat.

22020-68
AUSTRALIAN SEDGE IN NEW ZEALAND.
B P J Molloy E Edgar
New Zeal J Agr 114(4):41-44
Apr 1967 23 N48J
Carex, Plant ecology, Plant quarantine, Weed control.

The identification and history of Australian sedge in New Zealand is discussed. Plant quarantine stations are analysing ecological studies to combat the weed.

22021-68
CHEMICAL WEED CONTROL IN PICKLING CUCUMBERS. (ABSTRACT).
T J Monaco C H Miller
Hortscience 3(2,SUMMER):94
1968 SB1.H6
Chemical control (weeds), Cucumbers, Herbicides, Research, Weeds.

22022-68
UP TO DATE WEED CONTROL IN HORTICULTURE.
H Neururer
Pflanzenarzt 21(4):51-54
01 Apr 1968 464.9 P482
Biochemistry, Chemical control (weeds), Crop rotation, Crop yields, Herbicides, Photosynthesis, Potassium, Spraying, Tables (data), Weeds.

22023-68
FACTORS AFFECTING THE PERFORMANCE OF PREEMERGENCE AND POSTEMERGENCE HERBICIDES IN PICKLING CUCUMBERS. (ABSTRACT).
A R Putman
Hortscience 3(2,SUMMER):94
1968 SB1.H6
Chemical control (weeds), Cucumbers, Environment, Herbicides, Research, Soil structure.

22024-68
EFFECT OF DICAMBA ON WHEAT AND WILD BUCKWHEAT AT VARIOUS STAGES OF DEVELOPMENT.
P C Quimby J D Nalewaja
Weed Soc Amer Abstr 1966 MEETING:5
1966 241 W41
Chemical control (weeds), Dicamba, Herbicides, Plant physiology, Polygonum convolvulus, Wheat.

22025-68
MECHANICAL CONTROL OF COTTON WEEDS.
P K Rangaiah
Indian Farming 16(2):30-31
May 1966 22 IN283
Cotton, Cultural control (weeds), Weed control.

The author discusses the advantages and techniques of mechanical control of weeds in cotton fields in India.

22026-68
THE HERBICIDAL ACTIVITY OF MSMA AND DSMA ON PURPLE NUTSEDGE.
A B Richards J W Whitworth
Weed Soc Amer Abstr 1966 MEETING:8
1966 241 W41
Arsenic compounds, Chemical control (weeds), Cyperus rotundus, Disodium methanearsonate, Dosage, Herbicides, Monosodium acid methanearsonate, Plant physiology.

22027-68
THE RESPONSE OF RICE AND BARNYARD GRASS TO 3,4-DICHLOROPROPIONANILIDE.
J N Sierra M R Vega
Philippine Agr 51(5):438-451
Oct 1967 25 P542
Grasses, Plant metabolism, Propanil, Rice.

22028-68
CONTROLLING BARNYARD GRASS IN RICE.
D J Swain
Agr Gaz New S Wales 78(PT 8):473-475
Aug 1967 23 N472
Chemical control (weeds), Echinochloa, Propanil, Rice.

22029-68
WEED CONTROL IN UPLAND RICE AT THE UNIVERSITY OF THE PHILIPPINES COLLEGE OF AGRICULTURE.
M R Vega J D Ona E C Paller
Philippine Agr 51(5):397-411
Oct 1967 25 P542
Chemical control (weeds), Crop yields, Rice.

22030-68
NEW KNOWLEDGE ABOUT THE USE OF HERBICIDES IN PERMANENT GRASSLAND. (GE)
F Wagner
Gesunde Pflanzen 20(10):215-216,218
Oct 1968 464.8 G33
Biochemistry, Chemical control (weeds), Feed, Herbicides, Pastures.

OTHER PESTS

22031-68
RAT BAITS INCORPORATING PARAFFIN WAX.
Papua New Guinea Agr J 19(2):88
Sep 1967 23 N453
Baits, Chemical control (pests), Methodology, Paraffin wax, Rats.

22032-68
THE DISTRIBUTION OF THE MUSK RAT AND ITS CONTROL IN BAVARIA. (GE)
N Mallach
Gesunde Pflanzen 20(10):223-227 MAP
Oct 1968 464.8 G33

Muskrats, Population, Rodents, Zoogeography.

LIVESTOCK PROTECTION

22033-68
STUDIES ON THE MECHANISM OF INTERFERON ACTION.
R J Ash
Diss Abstr Sect B 29(5):1771B
Nov 1968 Z5055.U49D53
Cells, Culture media, Interferon, Mammals, Microbiology, Proteins, Research.

22034-68
AMYLOIDOSIS INDUCED IN MICE BY ESCHERICHIA COLI ENDOTOXIN.
W F Barth J K Gordon J T Willerson
Science 162(3854):694-695
08 Nov 1968 470 SCI2
Amyloidosis, Cells, Escherichia coli, Injections, Laboratory animals, Mice, Research, Toxins.

22035-68
STUDIES ON LEPTOSPIRAL LIPASE. I. CHARACTERIZATION OF LIPASES FROM PATHOGENIC AND SAPROPHYTIC STRAINS.
B Chorvath
J Hyg Epidemiol Microbiol Immunol 12(3):349-355 REF
1968 448.8 J826
Enzymes, Hydrogen-ion concentration, Leptospirosis, Lipases, Research, Saprophytes, Temperature. French, German, and Spanish summaries.

22036-68
HERITABLE REPRESSION DUE TO PARAMUTATION IN MAIZE.
E H Coe
Science 162(3856):925
22 Nov 1968 470 SCI2
Corn, Deoxyribonucleic acid, Heredity, Mutation, Plant genetics, Research, Ribonucleic acid.

22037-68
VIRUS-LIKE PARTICLES IN THE SPIRAL GANGLION OF THE GUINEA PIG COCHLEA.
J L Craft D A Hilding
Science 162(3861):1485-1487 REF
27 Dec 1968 470 SCI2
Cells, Ears, Electron microscopy, Guinea pigs, Nervous system, Research, Virus diseases (animals).

22038-68
STRUCTURE AND ANTIGENIC PROPERTIES OF A STAPHYLOCOCCAL L FORM.
D C Dannis
Diss Abstr Sect B 29(5):1773B
Nov 1968 Z5055.U49D53
Antigens, Culture media, Immunology, Microbiology, Properties, Research, Staphylococcus aureus.

22039-68
CURRENT ACTIVITIES--LASSWADE.
State Vet J 19(57):278
Sep 1964 S0F601.0S8
Chick embryos, Chicks, Culture media, Microscopy, Mycoplasma, Virology, Weather.

22040-68
METHODS OF RESTRAINING CATTLE FOR TUBERCULIN TESTING.
D B Morgan
State Vet J 19(57):256-260
Sep 1964 S0F601.0S8
Cattle, Equipment, Research, Tuberculin test.

22041-68
CALCIUM LOCALIZATION WITHIN LIVE OAT LEAVES USING A SEMICONDUCTOR DETECTOR ASSEMBLY.
A Ringoet R V Rechenmann M Melloni R Wilthagen
Planta 81(3):280-286
1968 450 P693
Autoradiography, Biochemistry, Calcium, Foliar application, Leaves, Oats, Plant translocation.

22042-68
THE CLASSIFICATION OF LEPTOSPIRAL STRAINS FROM KAZAKHSTAN.
A A Varfolomeeva S K Kanareykina E P Kozlova
J Hyg Epidemiol Microbiol Immunol 12(3):356-364
1968 448.8 J826
Animal diseases, Biochemistry, Copper, Leptospirosis, Research, Serological tests. French, German, and Spanish summaries.

DISEASES

22043-68
BALANTIDIASIS MAY BE MORE COMMON THAN WE THINK.
S S Ahluwalia
Indian Farming 16(10):41-43
Jan 1967 22 IN283
Balantidiasis, Diagnosis, Epidemiology, Human diseases, Swine.

The life history of Balantidium coli and the epidemiology of balantidiosis in swine and man are discussed.

22044-68
POTENTIATION BY SILICA OF THE GROWTH OF MYCOBACTERIUM TUBERCULOSIS IN MACROPHAGE CULTURES.
A C Allison P D'Arcy Hart
Brit J Exp Pathol 49(5):465-476 REF
Oct 1968 448.8 B772
Laboratory animals, Macrophages, Mycobacterium tuberculosis, Physiology, Research, Silica.

22045-68
NATIONAL POULTRY AND TURKEY IMPROVEMENT PLANS AND AUXILIARY PROVISIONS. NOTICE OF PROPOSED RULE MAKING.
R J Anderson
Fed Regist 33(241):18445-18447
12 Dec 1968 L1.451
Animal diseases, Artificial insemination, Blood tests, Meat, Poultry, Research, Turkeys.

22046-68
TEXAS (SPLENETIC) FEVER IN CATTLE. PERMITTED DIPS.
R J Anderson
Fed Regist 33(236):18089
05 Dec 1968 L1.451
Arsenic compounds, Cattle, Coumaphos, Dioxathion, Dipping, Drug therapy, Livestock diseases, Piroplasmosis, Tissues.

22047-68
ENZOOTIC FOOT ROT CONTROL IN SHEEP. (RUM)
C G Anghel
Rev Zootech Med Vet 17(12):57-63 REF
Dec 1967 49 P943
Chemical control (pests), Copper sulfate, Foot rot (animals), Sheep. French, Russian and English abstracts

22048-68
MOLDY CORN POISONING AS THE MAJOR CAUSE OF AN ENCEPHALOMALACIA SYNDROME IN EGYPTIAN EQUIDAE.
L Badiali M H Abou-Youssef A I Radwan F Hamdy
Amer J Vet Res 29(10):2029-
Oct 1968 41.8 AM3A
Asses, Corn, Encephalomalacia, Molds, Poisoning, Toxicology.

22049-68
NECROTIC ENTERITIS OF CHICKENS.
B S Bains
Australian Vet J 44(1):40
Jan 1968 41.8 AU72
Autopsies, Chickens, Clostridium, Drug therapy, Enteritis, Gastrointestinal diseases, Oxytetracycline.

22050-68
CLINICAL AND PATHOLOGICAL STUDIES OF BORDER LEICESTER RAMS NATURALLY INFECTED WITH ACTINOBACILLUS SEMINIS.
I D Baynes G C Simmons
Australian Vet J 44(8):339-343 REF
Aug 1968 41.8 AU72
Actinobacillus, Animal histology, Epididymitis, Sheep.

22051-68
DISEASES OF PIGS AND THEIR CONTROL. SF971.B4. (ge)
H Behrens K Richter
154P FRANKFURT AM MAIN, DLG VERLAG
1967
Biochemistry, Breeding, Diagnosis, Drug therapy, Feeding, Livestock diseases, Preventive medicine, Swine, Swine houses.

22052-68
THE MORPHOLOGICAL AND BIOLOGICAL EFFECTS OF VARIOUS ANTISERA ON AVIAN INFECTIOUS BRONCHITIS VIRUS.
D M Berry J D Almeida
J Gen Virol (3,PT 1):97-102 REF
Jul 1968 Q0R360.0A10J6
Antibodies, Electron microscopy, Heat, Infectious bronchitis, Morphology, Research, Virus diseases (animals).

22053-68
QUANTITATION OF SUSCEPTIBILITY OF SWINE TO INFECTION WITH PASTEURELLA TULARENSIS.
W S Bivin A L Hogge
Amer J Vet Res 28(126):1619-1621
Sep 1967 41.8 AM3A
Immunity, Pasteurella tularensis, Swine.

22054-68
SURVEY SHOWS WEAKNESS IN MASTITIS CONTROL.
B W Bootes
Agr Gaz New S Wales 78(PT 8):476-478
Aug 1967 23 N472
Cattle, Drug therapy, Hygiene, Mastitis, Streptococcus.

22055-68
MAREK'S DISEASE. (FR)
A. Brion
Rec Med Vet 144(10):911-926 REF
Oct 1968 41.8 R24
Animal physiology, Avian lymphomatosis, Diagnosis, Herpesviruses, Histology, Immunity, Poultry.

The author discusses the history, symptomatology, virus agent, and etiology of Marek's disease, avian lymphomatosis. The selection of resistant lines of fowl is suggested, because no specific method of control is available.

22056-68
NEW ZEALAND VETERINARIANS STUDY ANIMAL DISEASES IN THAILAND.
E O Brookbanks P Gallagher P G Davenport
New Zeal J Agr 114(1):37,39,41,43
Jan 1967 23 N48J
Animal breeding, Animal quarantine, Cattle, Epizootic diseases, Foot-and-mouth disease, Immunization, Livestock diseases.

Animal diseases, particularly foot and mouth disease, which occur in Thailand were studied by New Zealand veterinarians. Disease outbreaks, control measures, quarantine and breeding stations were studied and evaluated.

22057-68
STEPS CAN BE TAKEN TO CURB MASTITIS.
E O Brookbanks
New Zeal J Agr 114(6):62-63,65
Jun 1967 23 N48J

Dairy bacteriology, Hygiene, Livestock diseases, Mastitis.

Mastitis control in New Zealand is discussed. Biological tests and hygienic improvements are suggested.

22058-68
COMPARISON OF SELECTED CHARACTERISTICS OF FOUR STRAINS OF INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS.
G M Buening J B Gratzek
Amer J Vet Res 28(126):1257-1267 REF
Sep 1967 41.8 AM3A
Cattle, Diagnosis, Infectious bovine rhinotracheitis virus, Tissue culture.

22059-68
CRADLES MAKE FOOTROT TREATMENT EASIER.
R E Burnell
New Zeal J Agr 114(4):50-51,53
Apr 1967 23 N48J
Diagnosis, Equipment, Foot rot (animals), Methodology, Sheep.

A cradle for easy treatment and inspection for foot rot of sheep in New Zealand is described.

22060-68
EXPERIMENTAL IMMUNITY TO TUBERCULOSIS IN RABBITS IMMUNIZED WITH BCG MICROSOMAL FRACTION.
R M Burns
Diss Abstr Sect B 29(5):1772B
Nov 1968 Z5055.U49D53
Animal diseases, Immunity, Microbiology, Rabbits, Research, Tuberculosis, Tuberculosis vaccines.

22061-68
THE PERSISTENCE OF FOOT-AND-MOUTH DISEASE VIRUS IN SHEEP.
R Burrows
J Hyg 66(4):633-640 REF
Dec 1968 449.8 J82
Epizootic diseases, Foot-and-mouth disease virus, Sheep.

22062-68
POISONING OF CATTLE BY POLYGALA KLOTZCHII, CHODAT, IN THE REGION OF PONTAL (STATE OF SAO PAULO). (POR)
W V A de Camargo W Mengato F Platzech T Morita
Biologico 34(10):221-223
Oct 1968 442.8 B529
Cattle, Guinea pigs, Poisonous plants, Polygala, Toxicology.

22063-68
HOST SPECIFICITY AND SEROLOGIC DISPARITY OF AFRICAN SWINE FEVER VIRUS AND AMPHIBIAN POLYHEDRAL CYTOPLASMIC VIRUSES.
P E Came A H Dardiri
Soc Exp Biol Med Proc 130(1):128-132 REF
Jan 1969 442.9 SO1
African swine fever virus, Amphibians, Host relationships, Serological tests, Swine, Viruses.

22064-68
REGROWTH OF PRIMARY CELL CULTURES AFTER INFECTION WITH FOOT-AND-MOUTH DISEASE VIRUS.
C H Campbell
Amer J Vet Res 28(126):1601-1603
Sep 1967 41.8 AM3A
Cattle, Foot-and-mouth disease virus, Mice, Swine, Tissue culture.

22065-68
AFRICAN SWINE FEVER. APPLICATION OF IMMUNO-FLUORESCENCE TO THE STUDY OF TISSUE CULTURES. (FR)
R Carnero A Lucas F Ruiz B Larenaudie
Rec Med Vet 144(10):937-949 REF
Oct 1968 41.8 R24
African swine fever virus, Biochemistry, Diagnosis, Fluorescent antibody technic, Immunization, Tissue culture.

22066-68
MYCOBACTERIUM AVIUM INFECTION IN CATTLE: A CASE SERIES.
D R Cassidy L G Morehouse H A McDaniel
Amer J Vet Res 29(2):405-410 REF
Feb 1968 41.8 AM3A
Animal histology, Cattle, Mycobacterium avium, Surveys.

22067-68
PROPAGATION OF THE NEWCASTLE DISEASE VIRUS ON TISSUE CULTURES AT DIFFERENT TEMPERATURES. (CZ)
K Cernik E Cernikova
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(7):393-402 REF
08 Jul 1968 41.9 C333
Newcastle disease virus, Temperature, Tissue culture. Russian, English and German abstracts

22068-68
ERADICATING AND CONTROLLING BRUCELLOSIS IN SHEEP.
D G Christie
Agr Gaz New S Wales 78(PT 4):221-225
Apr 1967 23 N472
Brucellosis, Complement fixation, Hygiene, Immunization, Sheep, Sterility.

22069-68
THESE PLANTS MIGHT SPELL DEATH TO YOUR CATTLE.
J Christopher
Indian Farming 16(9):43,45-47,49
Dec 1966 22 IN283
Antidotes, Cattle, Poisonous plants.

The identification of and antidotes for poisonous plants which kill cattle in India are listed.

22070-68
CIGUATERA POISONING IN CATS IN BRISBANE.
L Clark G B Whitwell
Australian Vet J 44(2):81
Feb 1968 41.8 AU72
Cats, Fish, Food poisoning, Poisoning, Surveys.

22071-68
UNCOATING OF NEWCASTLE DISEASE VIRUS.
W D Collard
Diss Abstr Sect B 29(5):1772B-1773B
Nov 1968 Z5055.U49D53
Biochemistry, Chickens, Culture media, Newcastle disease virus, Research.

22072-68
IMMUNODIFFUSION REACTIONS BETWEEN HUMAN SERA AND MYCOPLASMA PNEUMONIAE.
R M Conant N L Somerson L B Senterfit
Soc Exp Biol Med Proc 129(2):401-407 REF
Nov 1968 442.9 SO1
Complement fixation, Fluorescent antibody technic, Hemagglutination, Mycoplasma, Serological tests.

22073-68
EQUINE INFLUENZA IN MEXICO. ISOLATION AND STUDY OF THE STRAIN E/EQUI 2/MEXICO/1/66. (SP)
R G Cunha G G Lopez L G Mijares R Delecolle
Rev Latinoamer Microbiol Parasitol 10(4,OCT-DEC):197-204 REF
Dec 1968 448.8 R32
Equine influenza, Horses, Serological tests. English abstract

22074-68
BRITAINS'S EXPERIENCE WITH FOOT AND MOUTH DISEASE.
R M Davidson
New Zeal J Agr 114(6):32
Jun 1967 23 N48J
Epizootic diseases, Foot-and-mouth disease, Virus diseases (animals).

The author discusses the epizootiology and recent outbreaks of foot and mouth disease in England.

22075-68
TOXICITY STUDIES OF LISTERIA MONOCYTOGENES GROWN IN VIVO.
R A DiCapua J W Osebold K R Stone
Amer J Vet Res 29(10):2023-2028 REF
Oct 1968 41.8 AM3A
Bacterial diseases (animals), Biological assay, Listeria monocytogenes, Mice, Toxicology.

22076-68
ANTIBODY TO RHINOVIRUS IN HUMAN SERA. I. STANDARDIZATION OF NEUTRALIZATION TEST.
R G Douglas W F Fleet T R Cate R B Louch
Soc Exp Biol Med Proc 127(2):497-502
Feb 1968 442.9 SO1
Antibodies, Immunodiagnosis, Rhinoviruses.

22077-68
VACCINATION AGAINST JOHNE'S DISEASE AND THE CREATION OF CARRIERS .
T M Doyle
State Vet J 19(57):212-213
Sep 1964 S0F601.0S8
Calves, Immunization, Johne's disease, Laboratories, Microscopy, Milk analysis, Research.

22078-68
THE WORKING PARTY OF FASCIOLIASIS IN WALES.
C M Edwards C B Ollerenshaw
State Vet J 19(57):244-255,MAP
Sep 1964 S0F601.0S8
Epizootic diseases, Fascioliasis, Reports, Research, Trematoda.

22079-68
SEROLOGIC STUDY OF REOVIRUS INFECTION IN DOGS.
G A Fairchild D Cohen
Amer J Vet Res 28(126):1487-1490
Sep 1967 41.8 AM3A
Dogs, Reoviruses, Serodiagnosis.

22080-68
APPLICATION OF STRESSES TO FOOT-AND-MOUTH DISEASE VIRUS.
O N Fellowes
Amer J Vet Res 28(127):1873-1880 REF
Nov 1967 41.8 AM3A
Epizootic diseases, Foot-and-mouth disease virus, Nitrous acid, Ribonucleic acid, Stress, Tissue culture, Ultraviolet rays.

22081-68
ENDOTOXIN PROPERTIES OF LEPTOSPIRA CANICOLA.
D R Finco D G Low
Amer J Vet Res 28(127):1863-1872 REF
Nov 1967 41.8 AM3A
Biological assay, Endotoxins, Escherichia coli, Leptospira canicola, Rabbits.

22082-68
ANTIBODY TO RHINOVIRUS IN HUMAN SERA. II. HETEROTYPIC RESPONSES.
W F Fleet R G Douglas T R Cate R B Couch
Soc Exp Biol Med Proc 127(2):503-509 REF
Feb 1968 442.9 SO1
Antibodies, Immunodiagnosis, Rhinoviruses.

22083-68
THE MECHANISM OF LYMPHOPENIA PRODUCED BY CHRONIC IRRADIATION OF THE RAT SPLEEN.
W L Ford
Brit J Exp Pathol 49(5):502-510 REF
Oct 1968 448.8 B772
Blood, Irradiation, Laboratory animals, Phosphorus isotopes, Rats, Research, Spleen.

22084-68
THE EFFECT OF VIBRIO FETUS VACCINATION ON THE BREEDING EFFICIENCY OF COWS BRED TO VIBRIO FETUS-INFECTED BULLS.
A H Frank J H Bryner P A O'Berry
Amer J Vet Res 28(126):1237-1242 REF
Sep 1967 41.8 AM3A
Animal breeding, Cattle, Immunization, Reproduction, Vibrio.

22085-68
THE COMPLEMENT-FIXATION TEST FOR AVIAN LEUKOSIS.
I G S Furminger A J Beale
J Gen Virol (3,PT 1):25-34 REF
Jul 1968 Q0R360.0A10J6
Antibodies, Antigens, Avian leukosis complex, Complement fixation, Hamsters, Neoplasms, Research, Rous sarcoma virus, Virus diseases (animals).

22086-68
ULTRASTRUCTURE OF ANAPLASMA MARGINALE FIXED WITH GLUTARALDEHYDE AND OSMIUM TETROXIDE.
D W Gates T O Roby T E Amerault D W Anthony
Amer J Vet Res 28(126):1577-1580 REF
Sep 1967 41.8 AM3A
Anaplasma, Cattle, Cytology, Electron microscopy.

22087-68
PREVALENCE OF SALMONELLOSIS AND BLACKLEG IN MATERIAL FROM CATTLE EXAMINED DURING THE FIVE-YEAR PERIOD 1963-1967 IN THE STATE OF SAO PAULO. (POR)
W Giorgi C Troise
Biologico 34(10):229-231
Oct 1968 442.8 B529
Bones, Cattle, Clostridium, Livestock diseases, Salmonella, Surveys.

22088-68
ATTEMPTS TO RECOVER MYCOPLASMA SUIPNEUMONIAE FROM EXPERIMENTAL AND NATURAL CASES OF ENZOOTIC PNEUMONIA IN PIGS.
R F W Goodwin A P Pomeroy P Whittlestone
J Hyg 66(4):595-603 REF
Dec 1968 449.8 J82
Epizootic diseases, Mycoplasma suipneumoniae, Pneumonia, Swine.

22089-68
PRODUCTION OF ENZOOTIC PNEUMONIA IN PIGS WITH MYCOPLASMA SUIPNEUMONIAE GROWN IN EMBRYONATED HEN'S EGGS.
R F W Goodwin J M W Hurrell P Whittelstone
Brit J Exp Pathol 49(5):431-435
Oct 1968 448.8 B772
Eggs, Livestock diseases, Mycoplasma suipneumoniae, Pneumonia, Research, Swine, Tissue culture.

22090-68
GRASS TETANY IN CATTLE--USING MOLASSES--MAGNESIUM OXIDE MIXTURES TO PREVENT IT.
J S Healey
Agr Gaz New S Wales 78(PT 7):392-393
Jul 1967 23 N472
Animal nutrition, Cattle, Grass tetany, Magnesium oxide, Molasses.

The prevention of grass tetany in Australian cattle, a nutritional deficiency disease, with molasses and magnesium oxide is discussed.

22091-68
EFFECTS OF TEMPERATURE ON IN VITRO EXCYSTATION OF VARIOUS EIMERIA SPECIES.
L E Hibbert D M Hammond
Exp Parasitol 23(2):161-170 REF
Oct 1968 436.8 EX7
Animal physiology, Asexual reproduction, Carbon dioxide, Cysts, Eimeria, Ovarian cysts, Sporozoa, Temperature.

22092-68
LABORATORY DIFFERENCES BETWEEN THE WS STRAIN OF INFLUENZA A VIRUS AND ITS NEUROTROPIC VARIANTS.
D Hobson E A Gould H I Flockton M G Gregory
Brit J Exp Pathol 49(5):516-524 REF
Oct 1968 448.8 B772
Influenza viruses, Laboratory animals, Mice, Neurotropic viruses, Physiology, Research, Serological tests, Tissue culture, Virus diseases (animals).

22093-68
THE ISOLATION AND RECOGNITION OF VIRUSES.
R A Huck
State Vet J 19(57):236-243
Sep 1964 S0F601.0S8
Chick embryos, Eggs, Histology, Laboratories, Microorganisms, Research, Serological tests, Viruses.

22094-68
BREEDING DISEASE-RESISTANT DOMESTIC ANIMALS.
F B Hutt
Agr Sci Rev (THIRD QUARTER)6(3):11-18 REF
1968 A31.3 AG893
Animal breeding, Animal diseases, Animal genetics, Immunity.

22095-68
CONTAGIOUS PLEURO-PNEUMONIA OF GOATS.
P R K Iyer
Indian Farming 16(2):40-42,44
May 1966 22 IN283
Goats, Immunization, Pleuropneumonia, Virucides.

22096-68
INFLUENCE OF EGG ALBUMIN-INDUCED LEUKOPENIA ON EXPERIMENTAL AEROBACTER AEROGENES MASTITIS AND ON NATURAL INFECTION OF MAMMARY GLAND WITH COAGULASE-NEGATIVE STAPHYLOCOCCUS IN A COW.
N C Jain J Lasmanis O W Schalm
Amer J Vet Res 28(126):1243-1250 REF
Sep 1967 41.8 AM3A
Aerobacter aerogenes, Cattle, Immunity, Mastitis, Staphylococcus.

22097-68
ABORTIVE AND TERATOGENIC EFFECTS OF LOCOWEED ON SHEEP AND CATTLE.
L F James J L Shupe W Binns R F Kecler
Amer J Vet Res 28(126):1379-1388 REF
Sep 1967 41.8 AM3A
Abnormalities, Abortion, Astragalus, Cattle, Poisonous plants, Pregnancy, Sheep, Toxicology.

22098-68
ON THE PREPARATION OF IMMUNE GLOBULINS AGAINST DISTEMPER AND INFECTIOUS HEPATITIS OF DOGS. (CZ)
E Jiran G Petr Z Urbanek
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(7):423-430 REF
08 Jul 1968 41.9 C333
Canine distemper, Dogs, Globulins, Immunization, Infectious canine hepatitis. Russian, English and German abstracts

22099-68
GROWTH OF RIFT VALLEY FEVER VIRUS IN TISSUE CULTURE.
R W Johnson M D Orlando
Amer J Vet Res 29(2):463-471 REF
Feb 1968 41.8 AM3A
Rift VALLEY fever virus, Tissue culture, Virus diseases.

22100-68
TESTING OF THE PATHOGENICITY OF VIRUS STRAINS OF THE NEWCASTLE DISEASE IN PIGEONS. (CZ)
V Kabelik
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(7):385-392
08 Jul 1968 41.9 C333
Microbiology, Newcastle disease virus, Pigeons. Russian, English and German abstracts

22101-68
COMPARATIVE PATHOLOGICAL ANATOMY OF THE HEPATITIS VIRUS OF MAN AND DOGS. (GE)
P Kapp
Acta Vet (budapest) 18(2):193-204 REF
1968 41.8 AC83
Animal anatomy, Autopsies, Dogs, Virus hepatitis.

22102-68
THE TRANSMISSION OF DERMATOPHILOSIS (MYCOTIC DERMATITIS) IN SHEEP.
P D Ke Riehe
Australian Vet J 44(2):64-67 REF
Feb 1968 41.8 AU72
Epidemiology, Livestock diseases, Mycotic dermatitis, Sheep.

22103-68
INFECTIOUS BOVINE RHINOTRACHEITIS-INFECTIOUS PUSTULAR VULVOVAGINITIS VIRUS INFECTION IN PREGNANT COWS.
J W Kendrick O C Straub
Amer J Vet Res 28(126):1269-1282
Sep 1967 41.8 AM3A
Abortion, Cattle, Coital exanthema, Diagnosis, Infectious bovine rhinotracheitis virus, Pregnancy.

22104-68
CYTOLOGIC STUDIES IN POLYOMA VIRUS-INFECTED MOUSE EMBRYO CELLS.
G P Khare R A Consigli
Amer J Vet Res 28(126):1527-1536 REF
Sep 1967 41.8 AM3A
Cytology, Mice, Physiology, Polyoma virus, Tissue culture.

22105-68
ON THE SPECIFIC MECHANISM OF THE TRANSMISSION OF LEPTOSPIRAL INFECTION.
V S Kiktenko
J Hyg Epidemiol Microbiol Immunol 12(3):341-348 REF
1968 448.8 J826
Animal diseases, Epidemiology, Infectious diseases, Kidneys, Leptospirosis, Research, Zoonoses. French, German, and Spanish summaries.

22106-68
UTERINE-AMNIONIC PATHWAY OF INFECTING THE RABBIT FETUS WITH LISTERIA MONOCYTOGENES.
C D King C Olson
Amer J Vet Res 28(126):1555-1567 REF
Sep 1967 41.8 AM3A
Fetus, Fluorescent antibody technic, Histology, Listeria monocytogenes, Rabbits.

22107-68
STUDIES OF LIVE ATTENUATED JAPANESE ENCEPHALITIS VACCINE IN SWINE.
K Kodama N Sasaki Y K Inoue
J Immunol 100(1):194-200 REF
Jan 1968 448.8 J8232
Colostrum, Injections, Japanese b encephalitis, Research, Swine, Vaccines.

22108-68
THE INVESTIGATION OF SCRUB TYPHUS IN THE USSR.
S M Kulagin I V Tarasevic N I Kudryasova L F Plotnikova
J Hyg Epidemiol Microbiol Immunol 12(3):257-263 REF
1968 448.8 J826

Animal vectors, Epidemiology, Infectious diseases, Insect vectors, Research, Scrub typhus. French, German, and Spanish summaries.

22109-68
SEROLOGIC ANALYSIS OF BOVINE VIBRIOSIS.
K Larson L Ringen
Amer J Vet Res 28(126):1231-1235 REF
Sep 1967 41.8 AM3A
Cattle, Electrophoresis, Serodiagnosis, Vibrio.

22110-68
EPIZOOTIOLOGIC STUDIES OF Q FEVER IN WASHINGTON DAIRY CATTLE.
D R Lingard
Diss Abstr Sect B 29(5):1539B
Nov 1968 Z5055.U49D53
Dairy cattle, Epizootic diseases, Livestock diseases, Q fever, Research.

22111-68
NEWCASTLE DISEASE IN ENGLAND AND WALES CONTROL BY VACCINATION--THE FIRST YEAR.
J G Loxam
State Vet J 19(57):197-211
Sep 1964 S0F601.0S8
Animal diseases, Immunization, Newcastle disease, Surveys.

22112-68
ELECTROPHORETIC FRACTIONATION OF CLOSTRIDIUM HEMOLYTICUM TOXIC CULTURE FLUIDS.
E A Lozano L D S Smith
Amer J Vet Res 28(126):1569-1576 REF
Sep 1967 41.8 AM3A
Clostridium hemolyticum, Electrophoresis, Erythrocytes, Proteins, Toxins.

22113-68
IN VIVO PRODUCTION OF A TOXIN(S) BY LISTERIA MONOCYTOGENES.
P K Mellwain R W Barnes
Amer J Vet Res 29(2):483-485
Feb 1968 41.8 AM3A
Chinchillas, Listeria monocytogenes, Mortality, Toxicology, Toxins.

22114-68
EVALUATION OF THE FLUORESCENT ANTIBODY-CELL CULTURE TEST FOR HOG CHOLERA DIAGNOSIS.
W L Mengeling J P Torrey
Amer J Vet Res 28(127):1653-1659 REF
Nov 1967 41.8 AM3A
Diagnosis, Fluorescent antibody technic, Hog cholera, Swine.

22115-68
PATHOGENESIS AND PATHOLOGIC FEATURES OF AVIAN ENCEPHALOMYELITIS IN CHICKS.
G C Mohanty J L West
Amer J Vet Res 29(12):2387-2400
Dec 1968 41.8 AM3A
Animal physiology, Avian encephalomyelitis, Central nervous system, Chickens, Hydrocephalus.

22116-68
SEROLOGIC COMPARISON OF NORTH AMERICAN AND JAPANESE PORCINE PICORNAVIRUSES.
T. Morimoto H W Dunne J T Wang
Amer J Vet Res 29(12):2275-2280 REF
Dec 1968 41.8 AM3A
Picornaviruses, Serological tests, Swine.

22117-68
SYNTHESIS AND CYTOPATHOGENESIS OF AFRICAN SWINE FEVER VIRUS IN PORCINE CELL CULTURES.
J Moulton L Coggins
Amer J Vet Res 29(2):219-232 REF
Feb 1968 41.8 AM3A
African swine fever virus, Biochemistry, Cytopathology, Tissue culture.

22118-68
ERADICATION OF VIBRIOSIS FROM A STUD HERD.
D H Mumford
Agr Gaz New S Wales 78(PT 2):98-99
Feb 1967 23 N472
Abortion, Bacterial diseases (animals), Cattle, Vibriosis.

22119-68
EXPERIENCES CONCERNING THE PREPARATION AND APPLICATION OF MYCOPLASMA ANTIGEN.
G Nagy
Acta Vet (budapest) 18(2):173-176
1968 41.8 AC83
Agglutination, Chickens, Hemagglutination, Mycoplasma gallisepticum antigens, Respiratory diseases, Serodiagnosis.

22120-68
THE OCCURRENCE OF FOOT-AND-MOUTH DISEASE IN THE STATE OF SAO PAULO IN 1968. (POR)
L P Netto A A Pinto O Suga O Yida
Biologico 34(10):226-228
Oct 1968 442.8 B529
Foot-and-mouth disease, Livestock diseases, Surveys.

22121-68
THE ROLE OF DIET AND THE RETICULOENDOTHELIAL SYSTEM IN THE RESPONSE OF RATS TO SALMONELLA TYPHIMURIUM INFECTION.
P M Newberne C E Hunt V R Young
Brit J Exp Pathol 49(5):448-457 REF
Oct 1968 448.8 B772
Copper, Deficiency diseases, Diet, Immunity, Proteins, Rats, Research, Reticuloendothelial system, Salmonella typhimurium, Vitamin b complex.

22122-68
STUDIES ON PATHOLOGY OF RESPIRATORY DISEASES OF POULTRY WITH SPECIAL REFERENCE TO VIRAL AND P. P. L. O. INFECTIONS.
S K Nigam
Agra Univ J Res Sci 16(PT 1):183-184
Jan 1967 513 AG8
Histology, Pleuropneumonia-like organisms, Poultry, Respiratory diseases, Virus diseases (animals).

22123-68
INFECTIOUS BOVINE RHINOTRACHEITIS: 0CORRELATION OF FETAL AND PLACENTAL LESIONS WITH VIRAL ISOLATIONS.
N V Owen T L Chow J A Molello
Amer J Vet Res 29(10):1959-1965
Oct 1968 41.8 AM3A
Animal physiology, Cattle, Cytopathology, Rhinotracheitis, Tissue culture.

22124-68
INFECTIOUS BOVINE RHINOTRACHEITIS: RELATIONSHIP OF LEVEL OF MATERNAL ANTIBODY TITER TO INCIDENCE OF FETAL DEATH AND ABORTION.
N V Owen T L Chow J A Molello
Amer J Vet Res 29(10):1967-1970
Oct 1968 41.8 AM3A
Abortion, Antibodies, Cattle, Rhinotracheitis, Virus diseases (animals).

22125-68
INFECTIOUS LARYNGOTRACHEITIS OF POULTRY. (RUM)
I Patrascu C Surdan V Rusu V Popa V Gogoasa M Taga
Rev Zootech Med Vet 17(12):31-56 REF
Dec 1967 49 P943
Epizootic diseases, Histology, Infectious laryngotracheitis, Poultry diseases, Serodiagnosis, Virology. French, Russian and English abstracts

22126-68
CHEMICALLY CHARACTERIZED MEDIA FOR STUDY OF FOOT-AND-MOUTH DISEASE VIRUS IN BABY HAMSTER KIDNEY CELLS.
J Polatnick
Appl Microbiol 15(2):228-232
Mar 1967 448.3 AP5
Cells, Culture media, Foot-and-mouth disease virus, Hamsters, Kidneys, Laboratories, Virus diseases (animals).

22127-68
KERATOCONJUNCTIVITIS PRODUCED BY MORAXELLA BOVIS IN LABORATORY ANIMALS.
G W Pugh D E Hughes T J McDonald
Amer J Vet Res 29(10):2057-2061 REF
Oct 1968 41.8 AM3A
Bacterial diseases (animals), Keratoconjunctivitis, Laboratory animals, Moraxella, Sheep.

22128-68
PASSIVE HEMOLYTIC ANTIBODY RESPONSE OF PRIMED, PARTIALLY RESISTANT MICE TO HEAT-KILLED SALMONELLA TYPHIMURIUM VACCINE.
J P Ransom
Soc Exp Biol Med Proc 128(2):419-423 REF
Jun 1968 442.9 SO1
Antibodies, Bacterial vaccines, Immunity, Mice, Salmonella typhimurium.

22129-68
INFLUENCE OF STREPTOCOCCUS EQUISIMILIS ON SITES OF ENDOCHONDRAL OSSIFICATION IN SWINE.
E D Roberts F K Ramsey W P Switzer J M Layton
Amer J Vet Res 28(127):1677-1686 REF
Nov 1967 41.8 AM3A
Bone diseases, Calcium, Streptococcus, Swine.

22130-68
ISOLATION OF THE GROUP-SPECIFIC POLYSACCHARIDE OF MYCOBACTERIUM TUBERCULOSIS.
B Sandoval S Estrada-Parra
Rev Latinoamer Microbiol Parasitol 10(4,OCT-DEC):171-173 REF
Dec 1968 448.8 R32
Immunization, Mycobacterium tuberculosis, Polysaccharides, Serological tests.

22131-68
BLOOD SERUM FACTORS ASSOCIATED WITH ERYTHROPHAGOCYTOSIS IN CALVES WITH ANAPLASMOSIS.
W F Schroeder M Ristic
Amer J Vet Res 29(10):1991-1995 REF
Oct 1968 41.8 AM3A
Anaplasmosis, Cattle, Erythrocytes, Immunity, Phagocytosis, Serological tests.

22132-68
COMPARISON OF A BOVINE ENTEROVIRUS AND FOOT-AND-MOUTH DISEASE VIRUS.
F W Scott G E Cottral
Amer J Vet Res 28(126):1597-1600 REF
Sep 1967 41.8 AM3A
Bovine enteroviruses, Cattle, Foot-and-mouth disease, Serological tests, Tissue culture.

22133-68
SOME CONSIDERATIONS ON THE NAME BOVINE MALARIA . (FR)
E Sergent
Nancy Univ Fac Pharm Ass Diplomes Microbiol Bull 110(2ND TRIMESTER):2-5
1968 448.2 N152
Cattle, Immunity, Malaria, Nomenclature, Symbiosis, Viruses.

22134-68
PROBELM OF AVIAN LEUKOSIS IN LAHORE.
S A Sheikh M Ahmad K A Tahir
Pakistan J Sci 19(5-6):212-217 REF
Nov 1967 475 P172

Avian leukosis complex, Avian lymphomatosis, Chickens, Immunization, Pest control, Poultry hatcheries.

A study was made of the high incidence of avian leukosis in Lahore, Pakistan. Heavy economic losses were caused by the lymphomatosis in the first laying season of brooding chickens. Hatcheries and parent stocks are discussed as the source of the infection and a review of previous literature is given.

22135-68
EFFECTS OF LISTERIA MONOCYTOGENES HEMOLYSINS ON THE ISOLATED ILEUM OF RABBIT.
I H Siddique C A Walker
Amer J Vet Res 28(127):1843-1849 REF
Nov 1967 41.8 AM3A
Drug therapy, Hemolysins, Listeria monocytogenes, Rabbits.

22136-68
VERVET MONKEY DISEASE: EXPERIMENTAL INFECTION OF GUINEAPIGS AND MONKEYS WITH THE CAUSATIVE AGENT.
D I H Simpson I Zlotnik D A Rutter
Brit J Exp Pathol 49(5):458-464
Oct 1968 448.8 B772
Animal diseases, Guinea pigs, Human diseases, Laboratory animals, Monkeys, Research, Reticuloendothelial system.

22137-68
VACCINATION AGAINST LEPTOSPIROSIS: IMMUNOGENICITY OF VIABLE, AVIRULENT LEPTOSPIRA POMONA IN HAMSTERS, SWINE, AND CATTLE.
O H V Stalheim
Amer J Vet Res 29(2):473-478 REF
Feb 1968 41.8 AM3A
Cattle, Immunization, Leptospira pomona, Swine.

22138-68
NEUTRALISING ANTIBODIES FOR AVIAN INFECTIOUS BRONCHITIS VIRUS IN QUEENSLAND POULTRY FLOCKS.
P Stephens G C Simmons
Australian Vet J 44(1):29-30
Jan 1968 41.8 AU72
Antibodies, Chickens, Infectious bronchitis, Serodiagnosis, Virus diseases (animals).

22139-68
VACCINATION OF CONGENITALLY-IMMUNE CHICKS AGAINST NEWCASTLE DISEASE VIRUS.
H D Stone W A Boney
Soc Exp Biol Med Proc 128(2):525-530 REF
Jun 1968 442.9 SO1
Antibodies, Chickens, Immunization, Newcastle disease virus.

22140-68
DIAGNOSIS OF TRICHOMONAS FOETUS INFECTION IN BULLS.
R Todorovic S H McNutt
Amer J Vet Res 28(126):1581-1590 REF
Sep 1967 41.8 AM3A
Cattle, Culture media, Diagnosis, Trichomonas, Trichomoniasis.

22141-68
TUMOUR METABOLIC INHIBITION OF SERUM FROM PARTIALLY HEPATECTOMIZED RATS AS A SPECIFIC LACK OF COMPENSATION MECHANISMS IN TUMOUR CELLS.
M Volm H Wrba H Hinderer
Brit J Exp Pathol 49(5):496-501
Oct 1968 448.8 B772
Cells, Culture media, Laboratory animals, Metabolism, Neoplasms, Rats, Research, Serum.

22142-68
SWINE FEVER ERADICATION CAMPAIGN 1963-64.
J Watson
State Vet J 19(57):261-274
Sep 1964 S0F601.0S8
Diagnosis, Histology, Hog cholera, Research, Swine, Vaccines.

22143-68
IMMUNOLOGIC AND HISTOLOGIC STUDIES OF A HAMSTER ADENOVIRUS TUMOR AND A MOUSE MAMMARY TUMOR.
C J Wood
Diss Abstr Sect B 29(5):1561B
Nov 1968 Z5055.U49D53
Adenoviruses, Hamsters, Histology, Immunology, Mammary glands, Mice, Neoplasms, Research, Virus diseases (animals).

22144-68
CARDIOPULMONARY VALUES IN NORMAL AND HEARTWORM-INFECTED DOGS.
D A Yarns R J Tashjian
Amer J Vet Res 28(126):1461-1473 REF
Sep 1967 41.8 AM3A
Blood pressure, Dirofilaria immitis, Dogs, Electrocardiograms, Heart failure, Phonocardiograms, Physiology.

22145-68
RELATION OF INTERFERON SYNTHESIS TO ABORTIVE REPLICATION OF NEWCASTLE DISEASE VIRUS IN L CELLS.
J S Youngner A W Scott
J Virology 2(1):81-82
Jan 1968 QR360.J6
Cells, Interferon, Newcastle disease virus, Proteins, Virus diseases (animals).

ARTHROPODS

22146-68
ATTENTION TO CATTLE LICE CAN BE PROFITABLE.
C C Banks
New Zeal J Agr 114(6):24-25
Jun 1967 23 N48J
Anoplura, Cattle, Chemical control (insects), Mallophaga.

Lice of New Zealand cattle and their control are described.

22147-68
EXTERNAL PARASITES OF PIGS.
R E Burnell J C Elliot
New Zeal J Agr 114(1):18-19,21
Jan 1967 23 N48J
Acarina, Anoplura, Chemical control (pests), Swine.

The author discusses New Zealand external parasites of swine, including methods for identifying and controlling infestations of lice and mites.

22148-68
INSECT TORMENTORS OF LIVESTOCK: IV. THE MITES.
R P Chaudhury
Indian Farming 16(5):43-45,49
Aug 1966 22 IN283
Acaricides, Acarina, Benzene hexachloride, Dieldrin, DDT, Host relationships, Livestock diseases.

Life cycles, ecology and chemical control of mites of livestock in India is discussed.

22149-68
INSECT TORMENTORS OF LIVESTOCK: III. FLEAS AND TICKS.
R P Chaudhury
Indian Farming 16(4):11-15
Jul 1966 22 IN283
Argas persicus, Benzene hexachloride, Chemical control (insects), DDT, Insecticides, Ixodidae, Siphonaptera.

Life cycles, including host relationships and chemical control of fleas and ticks attaching livestock in India are discussed.

22150-68
SCALY LEG IN POULTRY--A PARASITIC DISEASE.
J S Healey
Agr Gaz New S Wales 78(PT 10):602-603
Oct 1967 23 N472
Chemical control (insects), Hygiene, Mites, Poultry diseases, Scaly leg.

Chemical control of mites causing scaly leg in poultry of Australia is discussed.

22151-68
NEW DATA ON THE BLOODSUCKING MIDGE (DIPTERA, CERATOPOGONIDAE) OF THE COASTAL ZONE OF THE MARITIME TERRITORY.
K S Iuanov V M Glukhova
Entomol Rev 46(4,OCT-DEC):478-481
Dec 1967 421 R322AE
Catalogs, Ceratopogonidae, Insect taxonomy, Insect vectors, Japanese b encephalitis virus. Russian journal pp. 808-813

22152-68
PURINA POULTRY WORMING TABLETS. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 33(240):18409-18410
11 Dec 1968 L1.451
Biochemistry, Chemical control (nematodes), Drug therapy, Nematodes, Poultry, Veterinary medicine.

22153-68
LICE OF POULTRY.
Agr Gaz New S Wales 78(PT 3):178-180
Mar 1967 23 N472
Chemical control (insects), Dipping, Dusting, Fumigants, Mallophaga, Poultry, Spraying.

Methods for the eradication of poultry lice to increase egg production and reduce weight loss in chickens are discussed.

22154-68
THE PASTURE FLY (DIPTERA) FAUNA ASSOCIATED WITH CAMELS IN SOUTH TUVA.
Ye A Pridantseva
Entomol Rev 46(4,OCT-DEC):491-494 REF
Dec 1967 421 R322AE
Camels, Catalogs, Demography, Diptera, Insect vectors. Russian journal pp. 827-834

22155-68
CONTROL OF THE HAMSTER PEST. (GE)
O Schreier
Pflanzenarzt 21(5):69-70
01 May 1968 464.9 P482
Biochemistry, Carbon monoxide, Earthworms, Gases, Hamsters, Hibernation, Insect pests, Phosphorus compounds, Plant injuries, Spraying.

22156-68
HOW TO GET RID OF ECTOPARASITES OF POULTRY.
B P Srivastava V P Sharma
Indian Farming 16(1):20-23
Apr 1966 22 IN283
Acarina, Argas persicus, Chemical control (insects), Lindane, Malathion, Mallophaga, Parasitic insects, Poultry, Siphonaptera.

22157-68
SYNANTHROPIC DIPTERA OF THE GENERA DASYPHORA R. D. AND MORELLIA R. D. (DIPTERA,MUSCIDAE) IN SOVIET CENTRAL ASIA.
V I Sychevskaya
Entomol Rev 46(4,OCT-DEC):482-490 REF
Dec 1967 421 R322AE
Catalogs, Insect biology, Insect taxonomy, Insect vectors, Muscidae, Zoogeography. Russian journal pp. 814-826.

22158-68
NEW RESTRICTIONS ON USE OF DDT.
F B Thompson
New Zeal J Agr 114(6):53
Jun 1967 23 N48J

Chemical control (insects), DDT, Insecticide residues, Legislation.

Permits for DDT use in New Zealand are restricted during May, June and July. Specifications for its use around livestock are given.

PARASITES

22159-68
BIOLOGICAL INVESTIGATIONS ON THE CESTODE, RAILLIETINA (R.) LOEWENI BARTEL AND HANSEN, 1964.
M H Bartel M F Hansen
Amer Microscop Soc Trans 86(1):9-15
Jan 1967 440.9 AM33
Biology, Cestoda, Formicidae, Insect vectors, Rabbits, Raillietina.

22160-68
INFLUENCE OF HAEMONCHOSIS ON NUTRITIONALLY INDUCED KETOSIS IN SHEEP.
D G Bennett S D Van Dewark H D Jackson
Amer J Vet Res 29(12):2315-2324
Dec 1968 41.8 AM3A
Animal nutrition, Haemonchosis, Haemonchus contortus, Ketosis, Sheep.

22161-68
DIFFUSION CHAMBERS FOR INDUCING IMMUNITY TO TRICHINELLA SPIRALIS IN MICE.
D D Desponmier B S Wostmann
Exp Parasitol 23(2):228-233 REF
Oct 1968 436.8 EX7
Antigens, Diffusion, Immunization, Metabolism, Mice, Trichinella spiralis.

22162-68
RECOVERY OF PORCINE LIVER FROM DAMAGE CAUSED BY MIGRATING X-IRRADIATED AND NONIRRADIATED LARVAE OF ASCARIS SUUM.
D L Ferguson C A Mebus M J Twiehaus
Amer J Vet Res 29(2):233-243
Feb 1968 41.8 AM3A
Ascaris, Larvae, Liver diseases, Swine, X-rays.

22163-68
INTERNAL PARASITES IN SHEEP ON THE NORTHERN TABLELANDS.
A N A Harris
Agr Gaz New S Wales 78(PT 2):80-84
Feb 1967 23 N472
Animal nutrition, Cestoda, Coccidiosis, Drug therapy, Nematodes, Sheep, Trematoda.

22164-68
INFLUENCE OF DIFFERENT FORMS OF MANAGEMENT ON THE INCIDENCE OF HELMINTH PARASITISM IN POULTRY.
M Z Hussain
Pakistan J Sci 19(3):114-117 REF
May 1967 475 P172
Biometry, Cestoda, Nematodes, Poultry farm management. English abstract

22165-68
OPISTORCHIASIS IN SWINE. (RUM)
A Igritan
Rev Zootech Med Vet 17(12):64-66
Dec 1967 49 P943
Dierocoelium, Opisthorchis, Pancreas, Seminal vesicles, Swine.

22166-68
IMMUNOLOGICAL UNRESPONSIVENESS TO HELMINTH PARASITES: I. THE PATTERN OF NIPPOSTRONGYLUS BRASILIENSIS INFECTION IN YOUNG RATS.
E E E Jarrett W F H Jarrett G M Urquhart
Exp Parasitol 23(2):151-160 REF
Oct 1968 436.8 EX7
Helminthiasis, Immunization, Life cycle, Nippostrongylus brasiliensis, Rats.

22167-68
A NEW NEMATODE PARASITE ANCYLOSTOMA SINDHENSIS (ANCYLOSTOMIDAE: STRONGYLOIDEA) FROM INTESTINE OF THE COMMON STRIPED SQUIRREL, FUNAMBULUS PENNANTI ARGENTESCENS WROUGHTON, FROM LOWER SIND.
Z Khanum
Pakistan J Sci 19(3):105-108
May 1967 475 P172
Ancylostomatidae, Squirrels, Taxonomy.

22168-68
L-LYSINE CARBOXYLYASE IN ASCARIS LUMBRICOIDES AND MONIEZIA EXPANSA.
J Lopez-George M Monteoliva F Mayor
Exp Parasitol 23(2):129-133 REF
Oct 1968 436.8 EX7
Ascaris lumbricoides, Biochemistry, Cestoda, Enzymes, Lysine decarboxylase, Metabolism, Moniezia.

22169-68
SUMMARY OF THE COPROLITIC ANALYSES OF ANIMAL STRONGYLOSIS; RESULTS OBTAINED IN MEUTHE-ET-MOSELLE. (FR)
F Lundy
Nancy Univ Fac Pharm Ass Diplomes Microbiol Bull 110(2ND TRIMESTER):18-24
1968 448.2 N152
Cattle, Epizootic diseases, Sheep, Strongylosis.

22170-68
CARBON TETRACHLORIDE INJECTIONS FOR LIVER FLUKE CONTROL.
W J Perrett
Agr Gaz New S Wales 78(PT 3):158-159
Mar 1967 23 N472
Carbon tetrachloride, Cattle, Fasciola, Injections, Muscles, Sheep.

The effects of carbon tetrachloride injections in cattle and sheep for liver fluke control are discussed.

22171-68
SOME ASPECTS OF NUTRITION IN PARASITES.
C P Read
Amer Zool 8(1):139-149 REF
Feb 1968 410 AM3
Absorption, Digestion, Fasciola, Feeding, Nematodes, Nutrition, Physiology, Trichuris.

The nutrition of nematodes and trematodes as animal parasites is discussed in relation to food getting mechanisms which fall into three adaptive types, mechanical, internal digestive and absorption.

22172-68
OXYGEN CONSUMPTION IN ADULT ECHINOSTOMA REVOLUTUM.
J L Taft B Fried
Exp Parasitol 23(2):183-186
Oct 1968 436.8 EX7
Benzidine test, Chickens, Cyanides, Cytochrome oxidase, Echinostoma, Hemoglobin, Oxygen, Physiology, Trematoda.

22173-68
ELECTRON MICROSCOPE STUDIES OF FASCIOLA HEPATICA. VI. THE ULTRASTRUCTURAL LOCALIZATION OF PHOSPHATASES.
L T Threadgold
Exp Parasitol 23(2):264-276 REF
Oct 1968 436.8 EX7
Enzymes, Fasciola, Gastrointestinal system, Histochemistry, Lysosomes, Phosphatases, Physiology, Plasma membrane.

22174-68
SEASONAL INCIDENCE AND BIONOMICS OF SOME COMMON GASTROINTESTINAL NEMATODE LARVAE OF SHEEP AND GOATS.
J C Tripathi
Agra Univ J Res Sci 16(PT 1):179-181
Jan 1967 513 AG8
Biology, Cooperia, Epizootic diseases, Goats, Nematodes, Oesophagostomum, Sheep, Strongyloides.

22175-68
FURTHER OBSERVATIONS ON CAPILLARIA FELISCATI INFECTIONS IN THE CAT.
A H Waddell
Australian Vet J 44(1):33-34 REF
Jan 1968 41.8 AU72
Animal histology, Autopsies, Capillaria, Cats, Nematodiasis.

22176-68
EPIDEMIOLOGY OF HELMINTH INFESTATION OF BEEF CATTLE IN CENTRAL QUEENSLAND.
R Winks
Australian Vet J 44(8):367-372 REF
Aug 1968 41.8 AU72
Cattle, Epidemiology, Helminthiasis, Livestock diseases, Surveys.

COMMODITY PROTECTION

ARTHROPODS

22177-68
WHOLE GODOWN FUMIGATION IS ECONOMICAL AND SAFE.
G R Ghadiok
Indian Farming 16(8):25,27
Nov 1966 22 IN283
Carbon tetrachloride, Chemical control (insects), Ethylene diehloride, Grain, Insect control, Storage.

22178-68
OBSERVATIONS ON WOOD-DESTROYING INSECTS LIVING IN THE FOOTBRIDGE OVER SIIKANEVA BOG.
K Loyttyniemi
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(4):260-264
20 Dec 1967 421 SU7
Catalogs, Insect ecology, Wood-destroying insects.

22179-68
CONTROL OF INSECTICIDE RESIDUES IN PRODUCE.
L J Matthews
New Zeal J Agr 114(4):30-32
Apr 1967 23 N48J
Agricultural products, Chlorinated hydrocarbons, DDT, Insecticide residues, Legislation.

Chlorinated hydrocarbon insecticide residues in farm produce are discussed as well as laws to insure that New Zealand's produce meets overseas standards. Alternative insecticides and their application are described.

MICROBIAL CONTAMINATION

22180-68
THOUGHTS ON THE SALMONELLA PROBLEM. (GE)
J Bischoff
Arch Lebensmittelhyg 19(4):83
Apr 1968 41.8 L49
Food contamination, Meat inspection, Meat packing industry, Salmonella, Slaughterhouses.

The international problem of Salmonella in slaughter houses is discussed. The organism enters East Germany by imported egg products and fodder. Inspection stations are suggested as well as studies on the chemistry and biology of the organism for better packing and storage of products.

22181-68
ON THE LEGAL CLASSIFICATION OF INSPECTED MEAT FROM SLAUGHTERED

ANIMALS IN WHICH SALMONELLA WAS DETECTED. (GE)
E Martens
Arch Lebensmittelhyg 19(4):80-82 REF
Apr 1968 41.8 L49
Classification, Food contamination, Meat inspection, Salmonella, Slaughterhouses. German abstract

ENVIRONMENTAL CONTAMINATION

22182-68
THE EFFECTS OF AIR POLLUTION ON PLANTS AND SOIL.
53P, REF
1967 S602.A4A3
Air pollution, Fluorides, Plant injuries, Smog, Smoke, Soil contamination, Sulfur dioxide.

22183-68
POISONING OF BEES BY INSECTICIDES.
Agr Soc Trinidad Tobago J 67(2):186
Jun 1967 8 T73
Apis mellifera, Demeton, Disulfoton, Formulations, Oxydemetonmethyl, Phoratc, Poisoning, Spraying.

22184-68
COMMONWEALTH OF AUSTRALIA DEPT OF HEALTH PUBLIC HEALTH BRANCH. PESTICIDES REVIEW.
Australia Dep Health Pesticides Quart Suppl 11P
Aug 1968 464.4 AU7
Carbamates, Herbicides, Organic compounds, Pesticides, Phosphorus, Reports, Research, Toxicology.

22185-68
EFFECT OF SOIL TREATMENT WITH DISULFOTON (DISYSTON) GRANULAR UNDER LOW TEMPERATURE CONDITION. (JA)
M Nakata Y Ishino
Jap J Appl Entomol Zool 11(4):187-188
Dec 1967 475 J27
Disulfoton, Research, Soil testing, Temperature.

RESIDUES

22186-68
CONTRIBUTION TO THE KNOWLEDGE OF THE POSSIBLE INFLUENCE OF PESTICIDES ON GAME. (GE)
W Beck J Gebeshuber D Gesswagner E Glofke E Kahl K Lebeda
Pflanzenschutzberichte 38(5/7):69-96 MAP REF
Jul 1968 464.9 P48
Game animals, Pesticide residues, Pesticides, Research, Tables (data), Toxicology. English summary.

22187-68
THE FATE OF PARAQUAT IN SOILS.
A Calderbank T E Tomlinson
Outlook Agr 5(6):252-257 REF
1968 10 OU8
Herbicide residues, Metabolism, Nitrification, Paraquat, Soil adsorption, Soil microbiology.

22188-68
A RELATIVE STUDY OF THE COMPOSITION AND TENACITY OF THE KARATHANE DEPOSITS ON BEAN LEAVES. (FR)
A Copin
Gembloux Inst Agron Etat Bull 3(2):261-269
1968 105.1 G285
Adhesives, Beans, Dinocap, Humidity, Pesticide residues. English abstract

22189-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. METHOXYCHLOR.
R E Duggan
Fed Regist 33(240):18372
11 Dec 1968 L1.451
Agricultural products, Chemicals, Methoxychlor, Pesticide residues, Pesticides, Potatoes.

22190-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. DIPHENAMID.
R E Duggan
Fed Regist 33(236):18090
05 Dec 1968 L1.451
Agricultural products, Biochemistry, Diphenamid, Herbicide residues, Meat, Milk, Pesticides, Potatoes.

22191-68
PRODUCTION OF ANTIBODIES AGAINST INSECTICIDE--PROTEIN CONJUGATES.
G J Haas E J Guardia
Soc Exp Biol Med Proc 129(2):546-551
Nov 1968 442.9 SO1
Antibodies, DDT, Malathion, Rabbits, Serological tests.

22192-68
METHOXYCHLOR RESIDUES IN THE MEAT AND MILK OF CATTLE FOLLOWING LIMITED APPLICATIONS OF METHOXYCHLOR FOR THE CONTROL OF BUFFALO FLY (HAEMATOBIA EXIGUA).
I S Hurwood
Australian Vet J 44(8):377-381 REF
Aug 1968 41.8 AU72
Cattle, Insecticide residues, Meat, Methoxychlor, Milk.

22193-68
FACTORS INFLUENCING THE PERSISTENCE OF THE HERBICIDE 2,6-DICHLOROBENZONITRILE IN VARIOUS SOIL TYPES. (IT)
G Petrosini F Tafuri M Businelli
Agrochimica 12(5):422-436 REF
Aug 1968 385 AG84
Chromatography, Dichlobenil, Herbicide residues, Soil series. English, French, German, and Spanish abstracts

22194-68
FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION ARSENIC.
W B Rankin
Fed Regist 33(242):18487
13 Dec 1968 L1.451
Arsenic, Chickens, Eggs, Food additives, Food consumption, Pesticide residues, Tissues, Toxicology, Turkeys.

TOXICOLOGY

22195-68
NERVE GAS: DUGWAY ACCIDENT LINKED TO UTAH SHEEP KILL.
P M Boffey
Science 162(3861):1460-1464
27 Dec 1968 470 SC12
Chemicals, Food contamination, Gases, Mortality, Nervous system, Research, Sheep, Toxicology.

22196-68
GRAZING. CONTROL OF NOXIOUS PLANTS ON LAND UNDER CONTROL OR JURISDICTION OF FEDERAL GOVERNMENT.
O L Freeman
Fed Regist 33(241):18440
12 Dec 1968 L1.451
Animals, Chemical control (weeds), Grazing, Livestock diseases, Poisonous plants, Public lands.

22197-68
PESTICIDES AND WATER. TD427.P38G3. (fr)
M A Gamrasni
15P REF ASSOCIATION FRANCAISE pOUR L'ETUDE dES EAUX
Jan 1968
Accident prevention, Aquatic animals, Pesticides, Public health, Toxicology, Water. This article is an extract from the periodical, Water, Dec. 1967- Jan. 1968.

22198-68
PHALARIS CAN BE POISONOUS.
J S Healey
Agr Gaz New S Wales 78(PT 2):91-93
Feb 1967 23 N472
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Abortive and teratogenic effects of locoweed on sheep and cattle.
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Abortive and teratogenic effects of locoweed on sheep and cattle.
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Infectious bovine rhinotracheitis-infectious pustular vulvovaginitis virus infection in pregnant cows.
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21999

Insect tormentors of livestock: IV. The mites.
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21999

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